Supplementary Materials

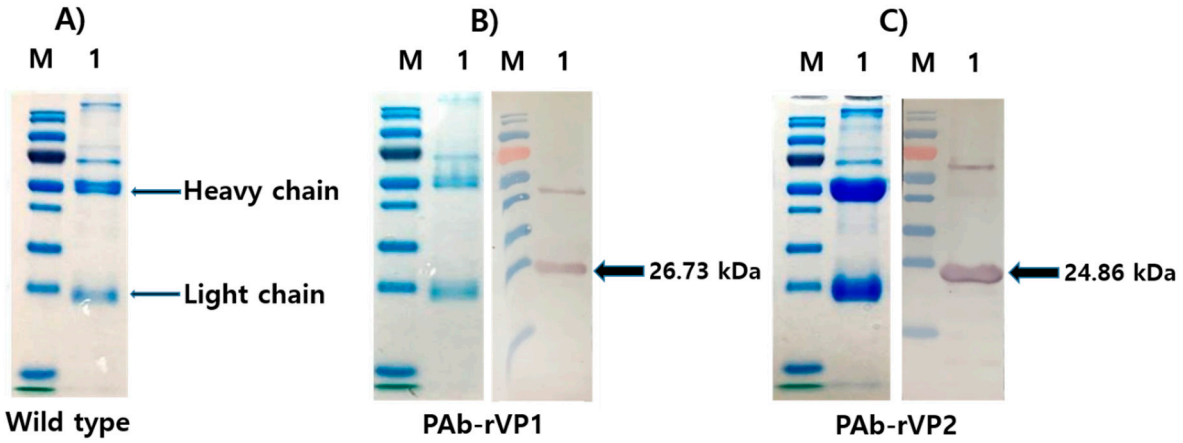


Figure S1. (A) 10% SDS-PAGE of the purified IgG from blood collected from wild type mouse at the 7th week. (B) 10% SDS-PAGE of the purified IgG (PAb-rVP1) from antiserum collected from rVP1-inmunized mouse at 7th week (left) and Western blot analysis of the rVP1 using PAb-rVP1 (right). (C) 10% SDS-PAGE of the purified IgG (PAb-rVP2) from antiserum collected from rVP2-inmunized mouse at 7th week (left) and Western blot analysis of the rVP2 using PAb-rVP2 (right).

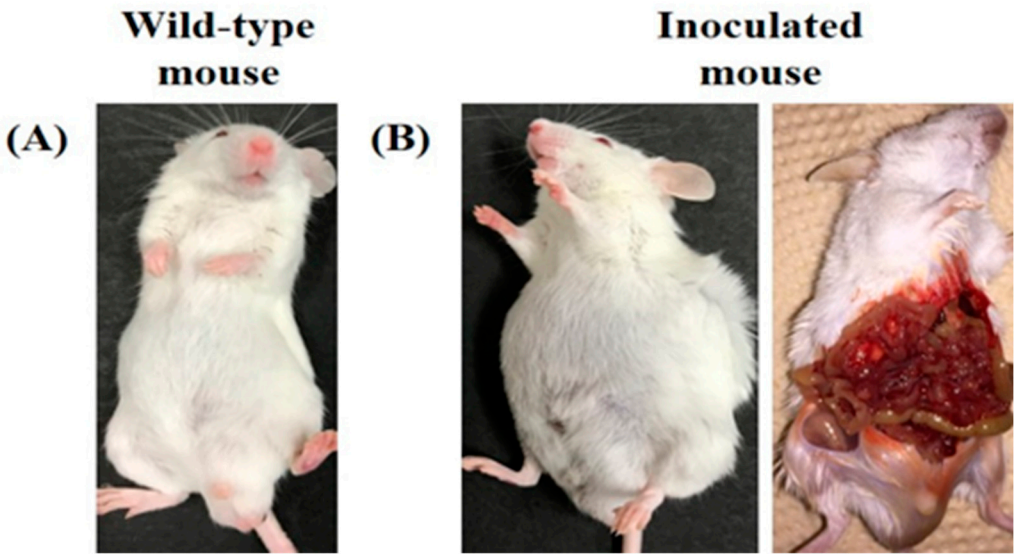


Figure S2. Mouse intraperitoneal injected with hybridoma cells containing mAb-VP1 and mAb-VP2, respectively. Ascites formation and monoclonal antibody production was carried out in Freund's incomplete adjuvant-primed male mice (6-10 weeks old). Ascites fluid containing a high level of antibody was collected from each mouse at 10 days after inoculation. The animals usually survived 11–16 days after being injected with the tumor cells.

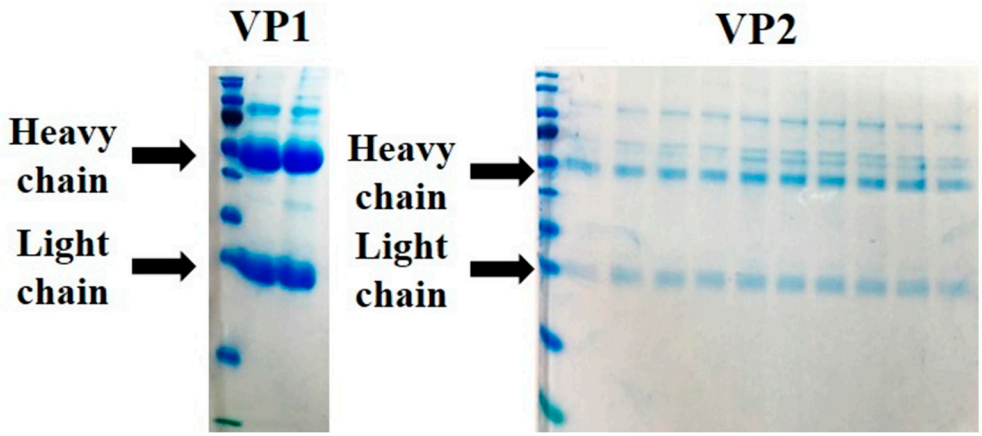


Figure S3. Purified monoclonal IgG-VP1 and -VP2 from ascites of mice which were injected with hybridoma cells containing mAb-VP1 and mAb-VP2, respectively.

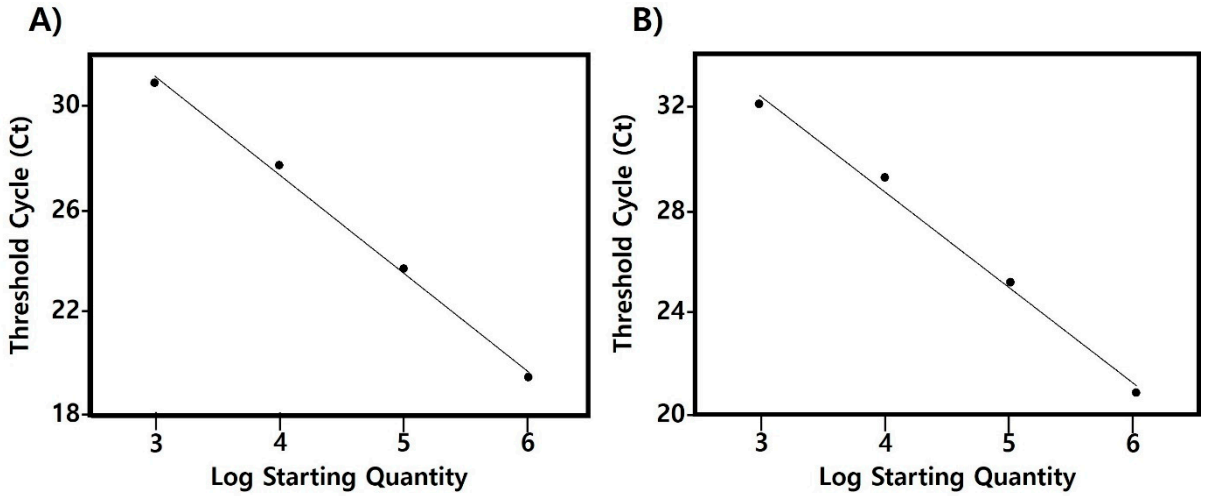
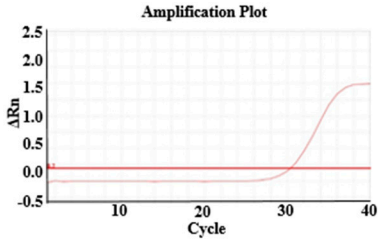
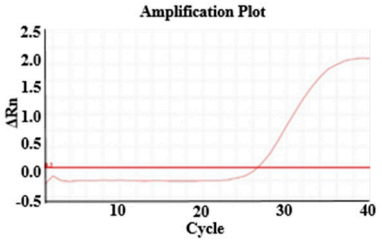
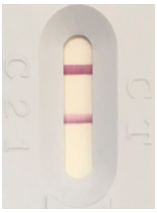
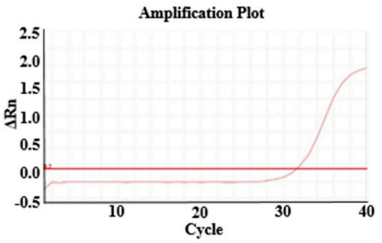
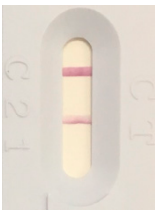
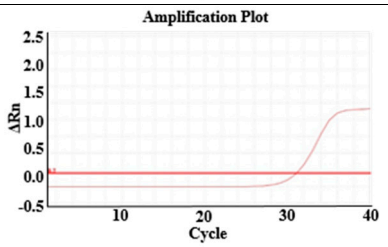
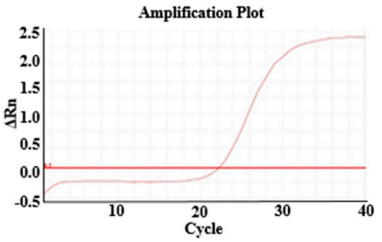
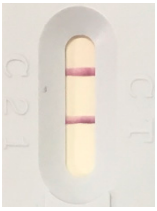
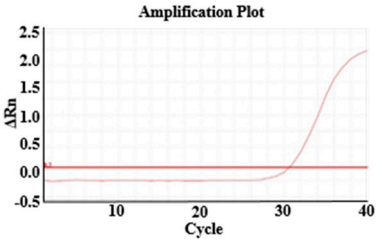
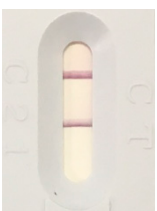
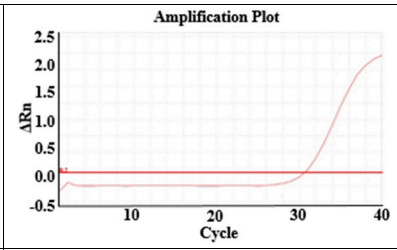
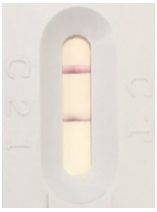
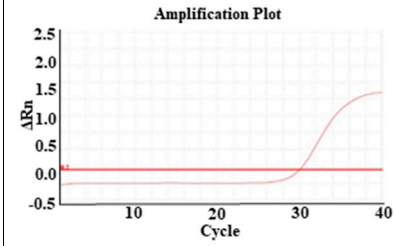
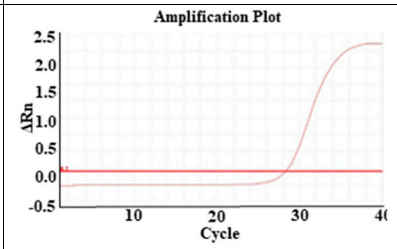
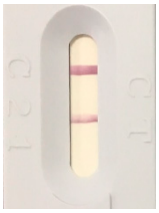
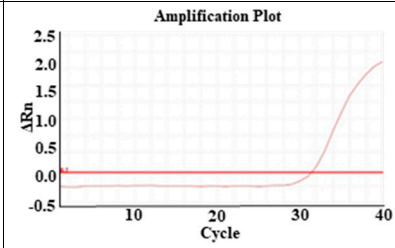
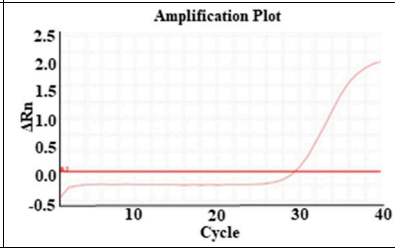
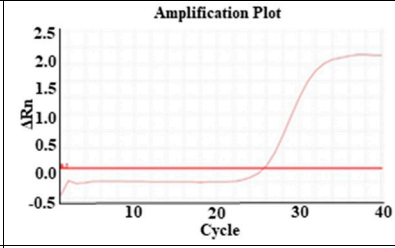
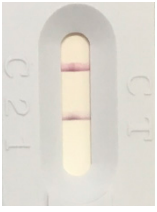
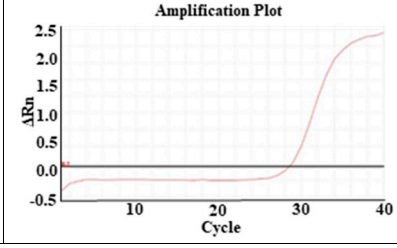
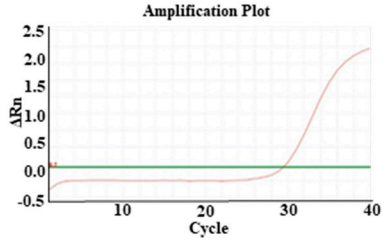
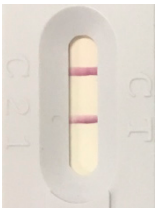
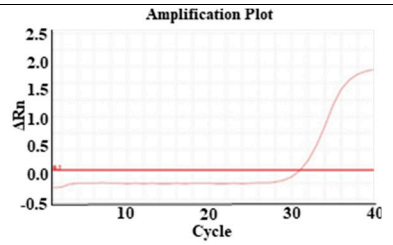
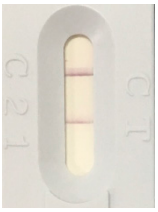
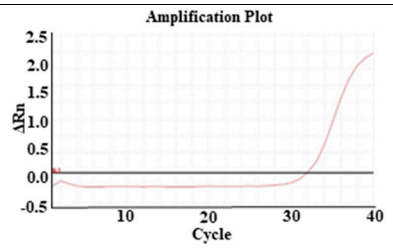
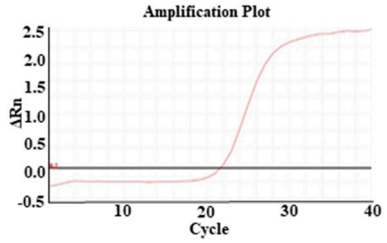
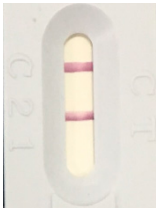
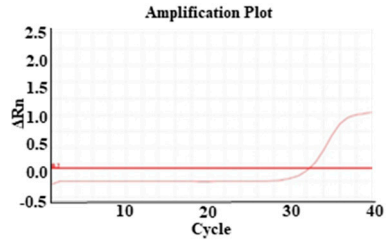
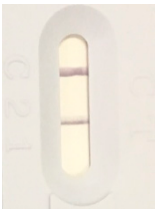
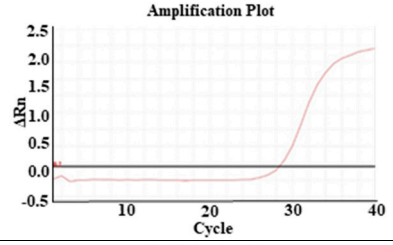
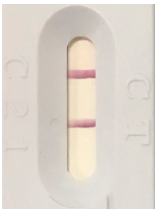
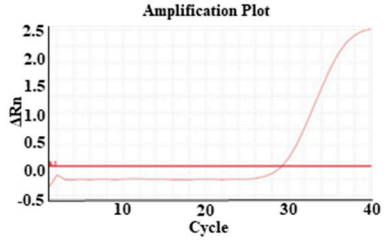
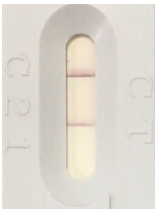
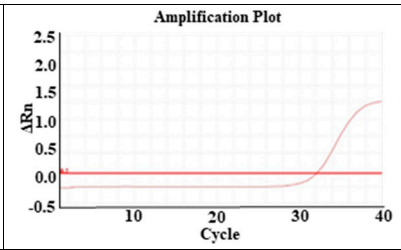
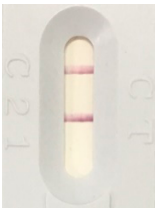
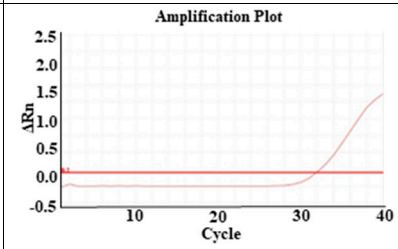
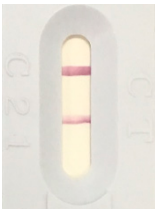
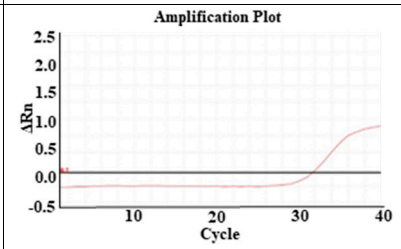
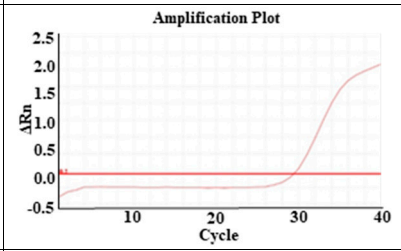
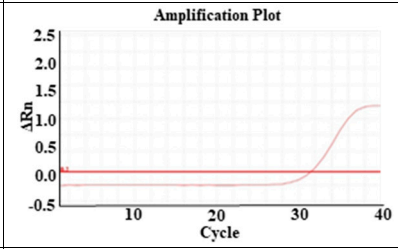
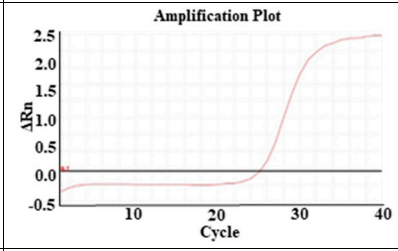
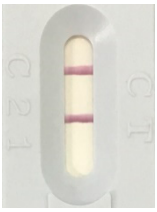
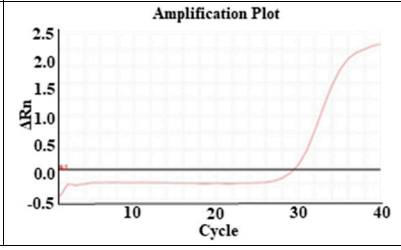
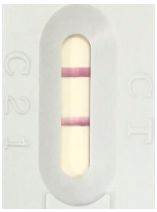


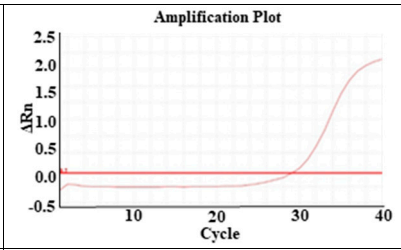
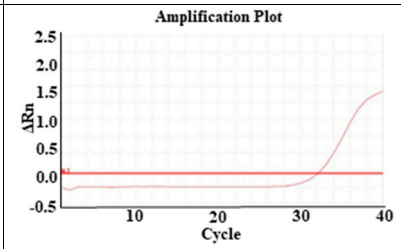
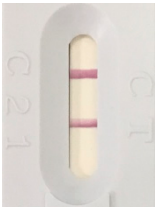
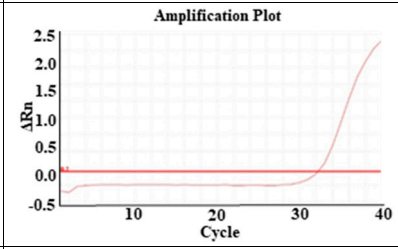
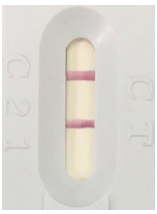
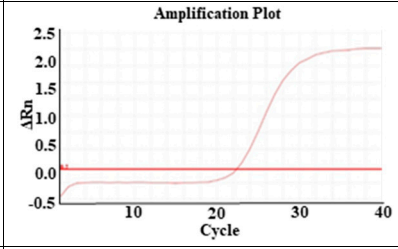
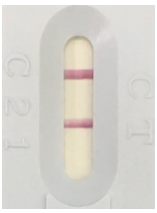
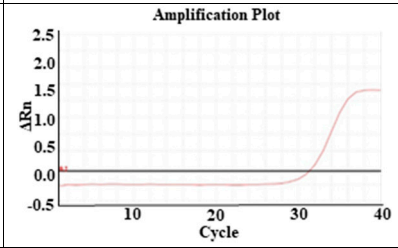
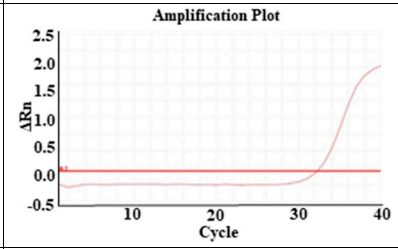
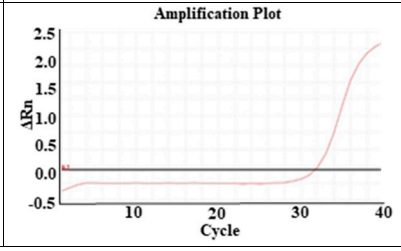
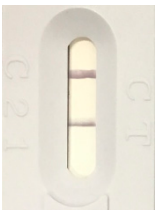
Figure S4. A ten-fold serial dilution series of the pET28a-VP1 and pET28a-VP2 ranging from 1×10^3 to 1×10^6 copies/μL, was used to construct the standard curves for both VP1 andVP2. Each standard dilution was amplified by real-time qPCR using primer sets of VP1 and VP2 in duplicate. The plot of a standard curve of Ct values against the logarithmic dilutions produced a regression line ($y = -3.8356x + 42.7930$, $R^2 = 0.9965$) for the VP1 (A) and a regression line ($y = -3.7314x + 43.5159$, $R^2 = 0.9933$) for the VP2 (B).

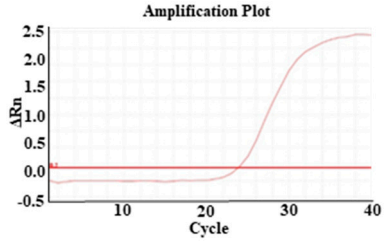
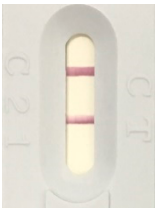
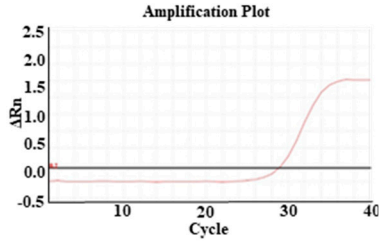
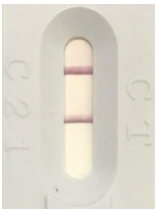
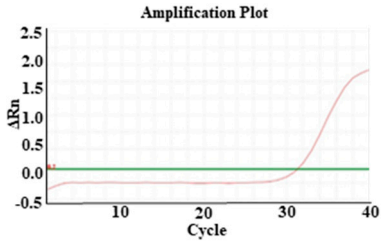
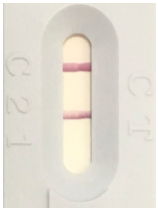
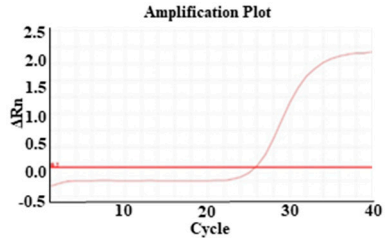
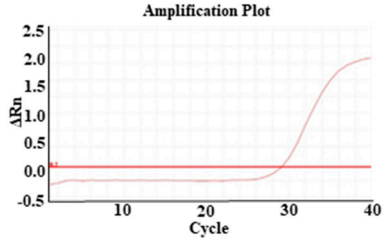
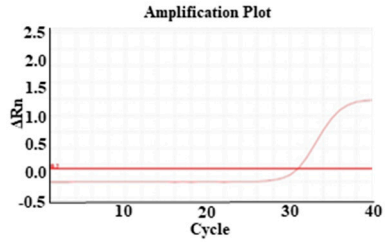
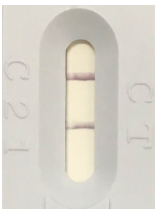
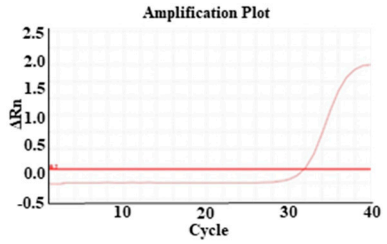
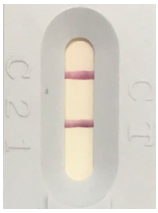
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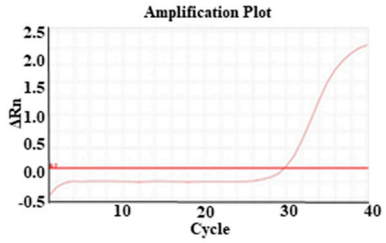
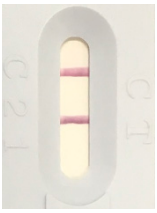
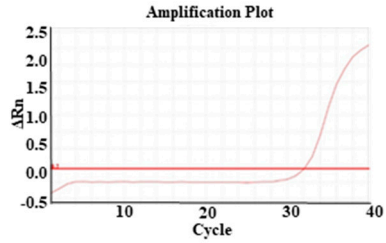
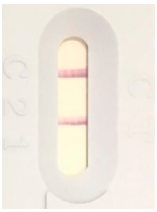
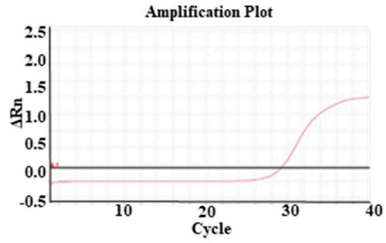
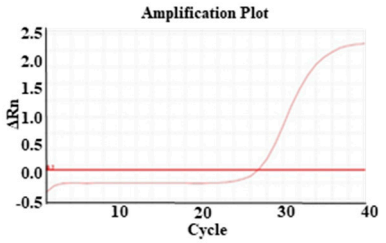
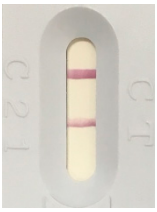
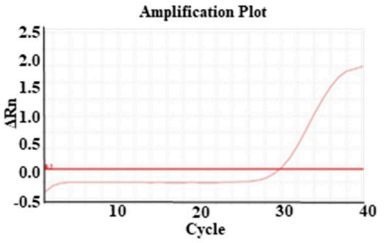
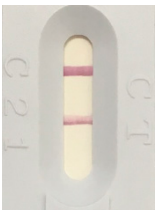
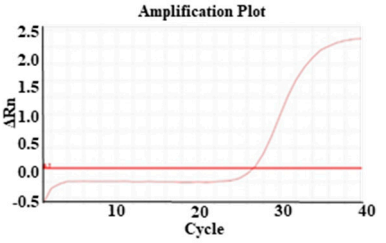
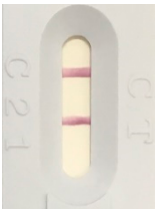
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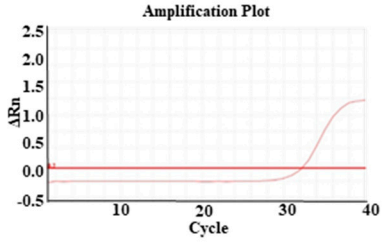
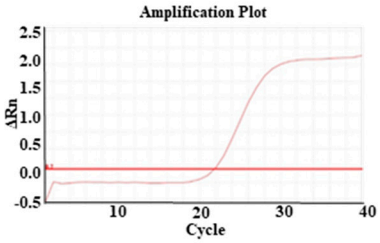
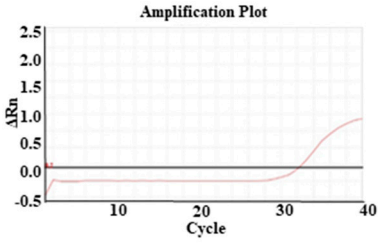
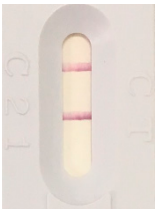
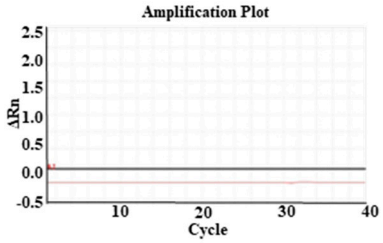
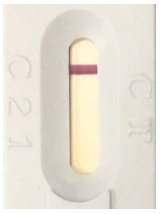
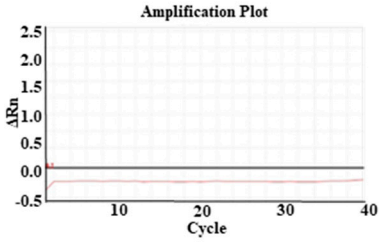
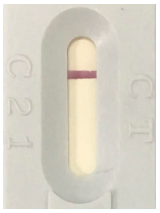
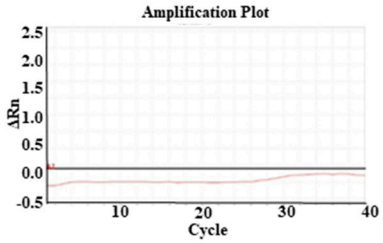
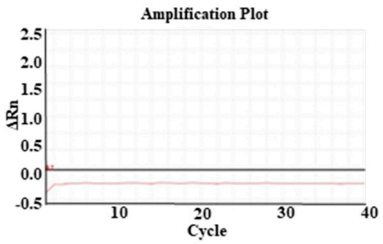
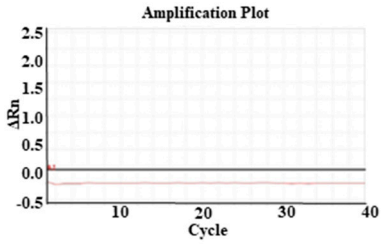
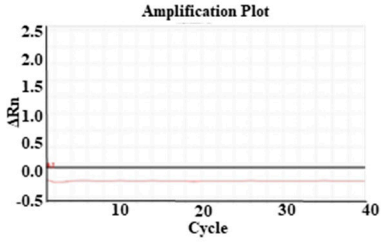
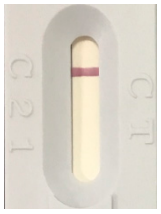
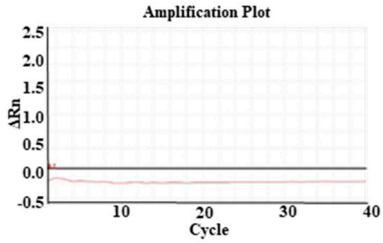
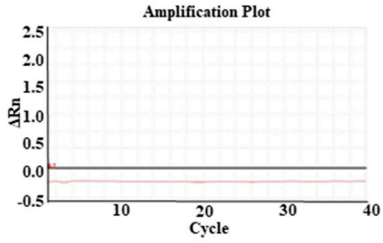
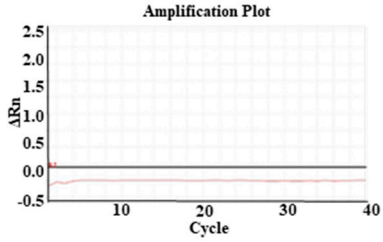
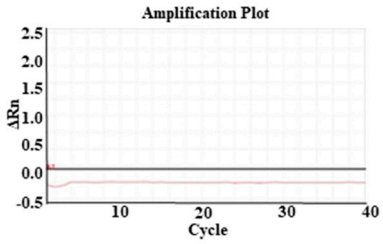
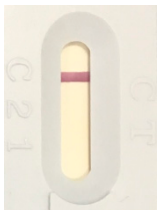
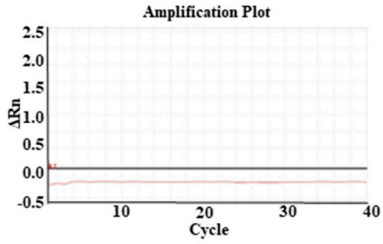
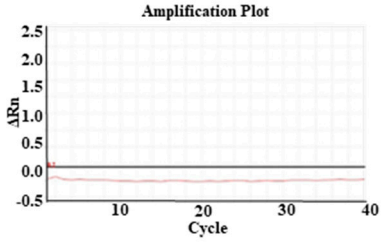
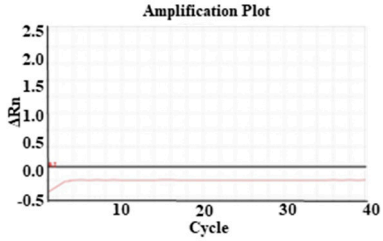
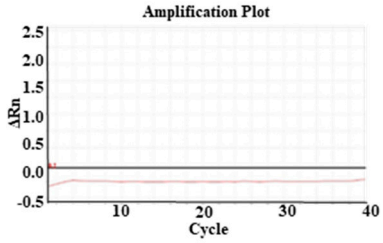
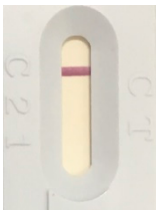
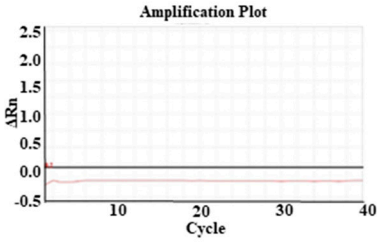
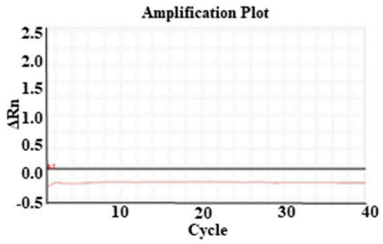
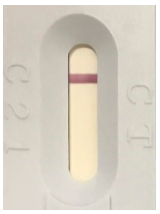
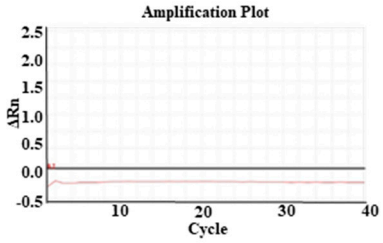
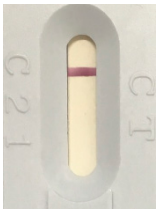
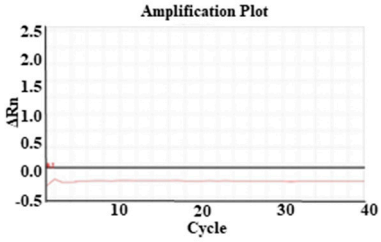
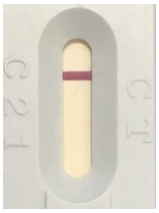
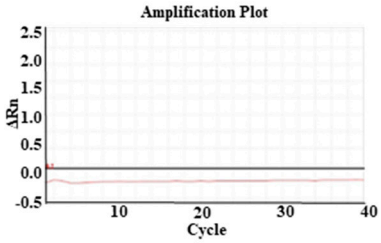
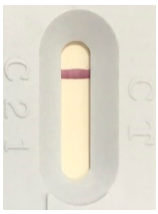
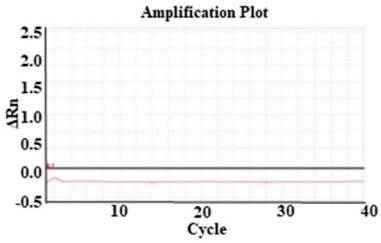
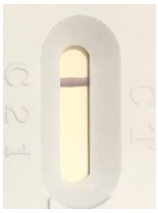
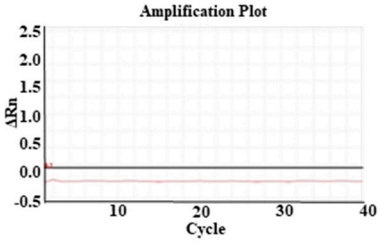
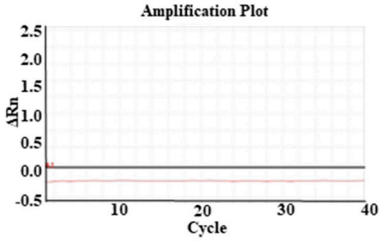
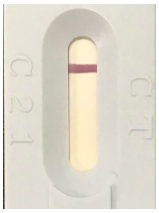
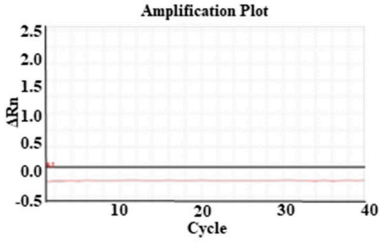
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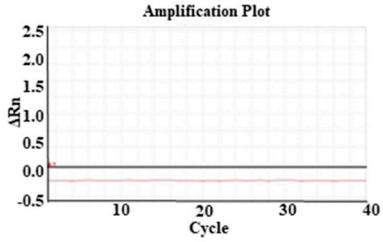
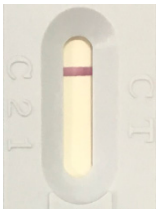
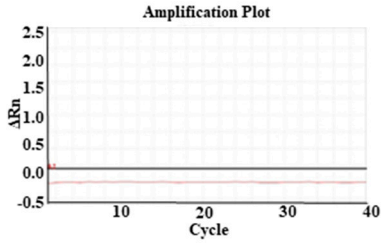
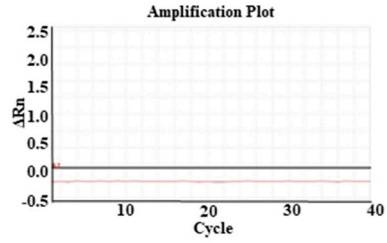
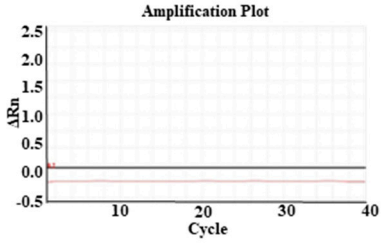
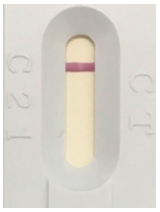
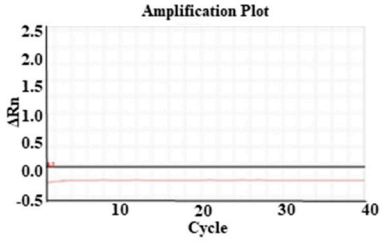
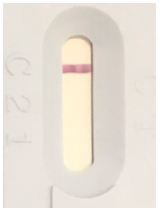
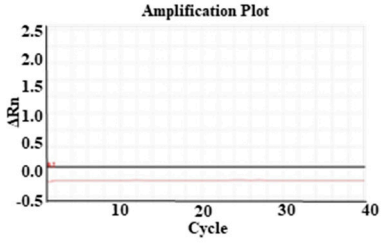
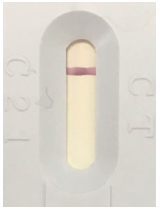
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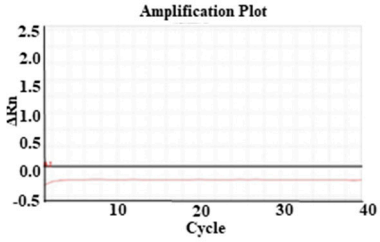
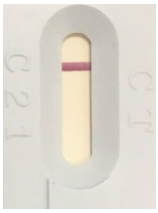
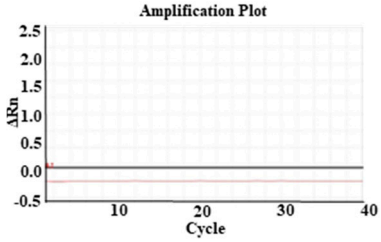
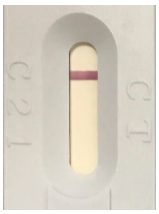
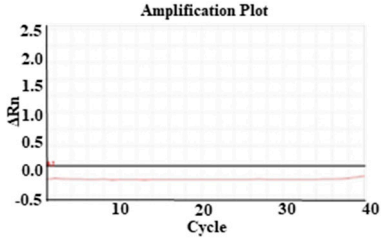
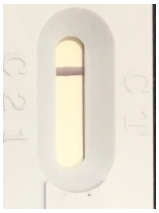
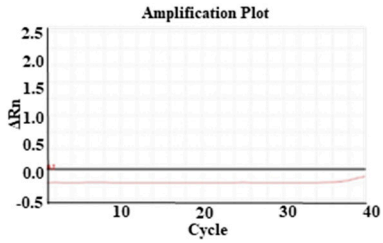
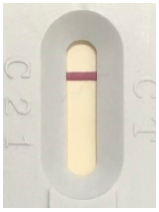
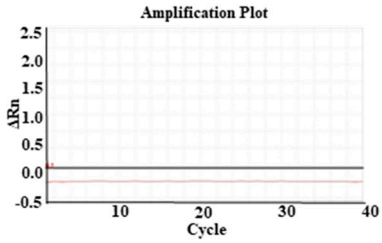
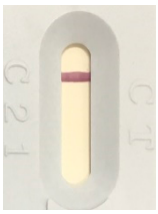
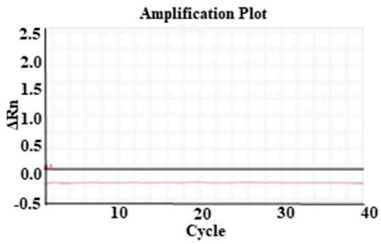
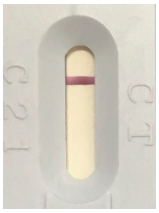
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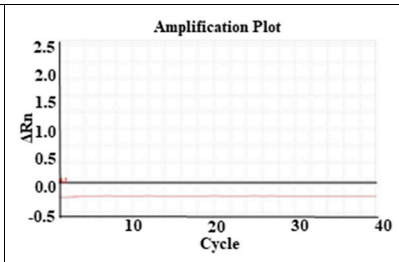
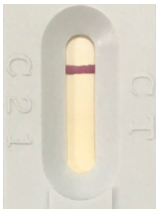
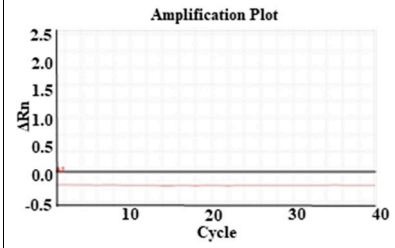
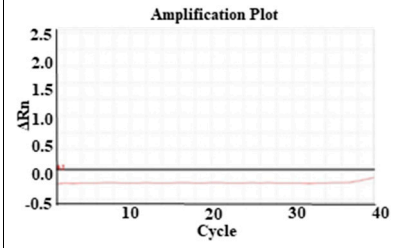
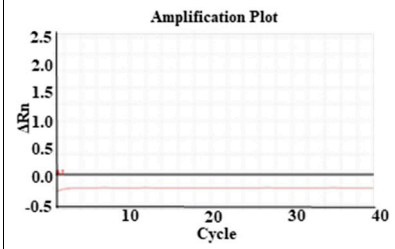
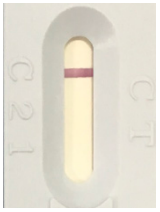
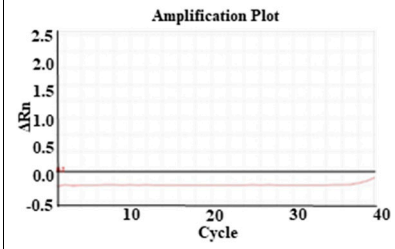
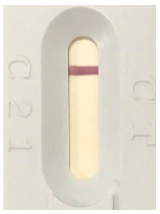
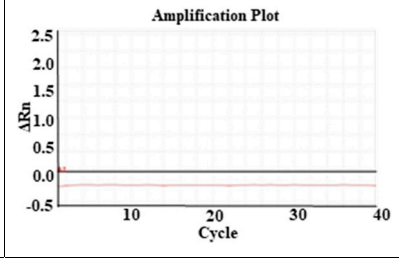
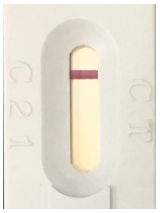
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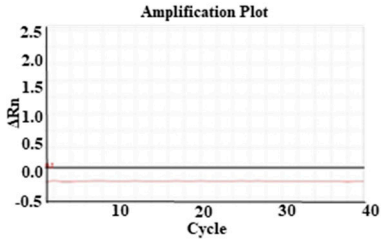
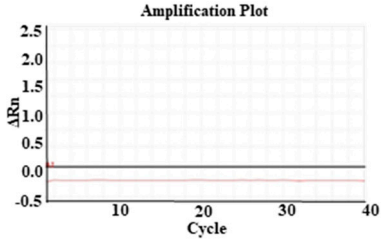
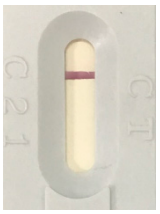
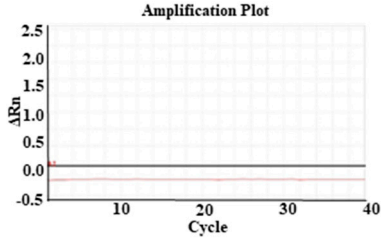
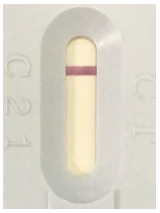
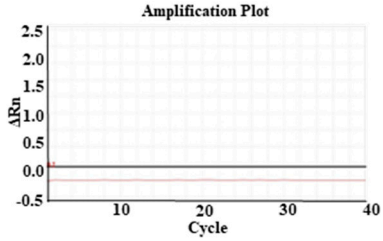
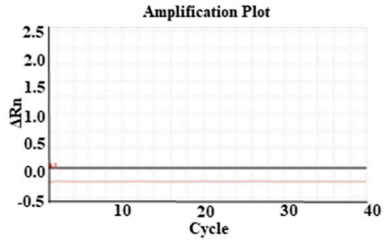
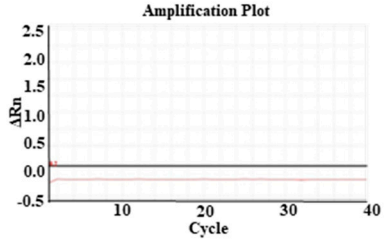
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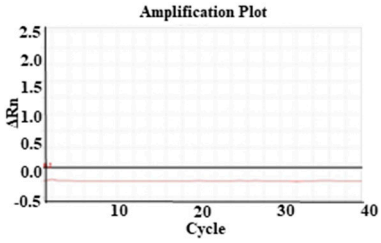
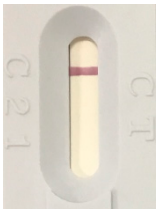
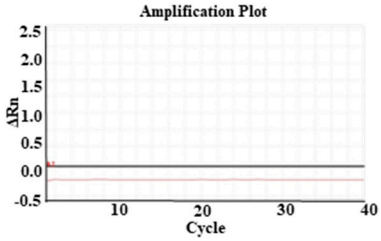
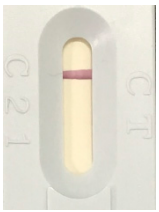
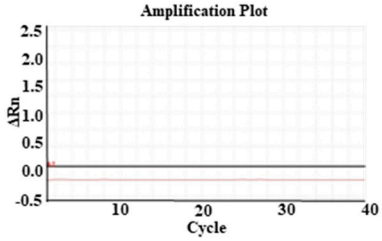
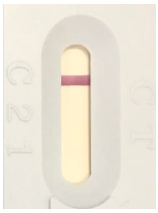
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Figure S6. Specificity test of mAb-V1-1.