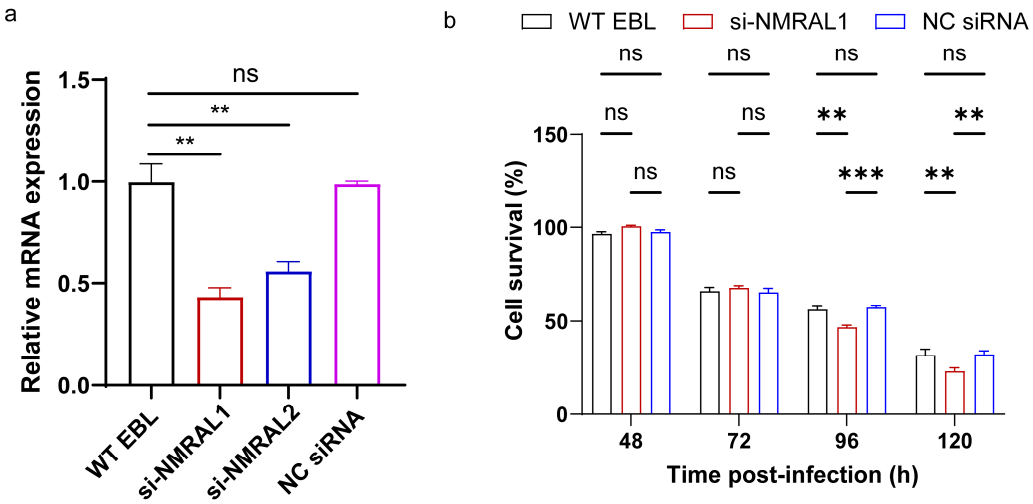


Figure S1. The knockdown of *NMRAL1* and *NMRAL2* and the effect of *NMRAL1* knockdown on cell survival during *M. bovis* infection measured by the CCK8 Assay. (**a**) WT EBL cells were transfected with siRNA targeting *NMRAL1* and *NMRAL2*, and transfection efficiency was confirmed via RT-qPCR 48 h post-transfection. (**b**) The impact of *NMRAL1* knockdown on cell viability was evaluated following *M. bovis* infection. Both WT and si-NMRAL1 EBL cells were infected with *M. bovis*, and cell survival was assessed using the CCK8 assay. Statistical significance between groups was determined using a two-tailed unpaired t-test and two-way ANOVA (three independent replicates). $^{**}p < 0.01$ and $^{***}p < 0.001$ indicate statistically significant differences, and ns for no significant difference.