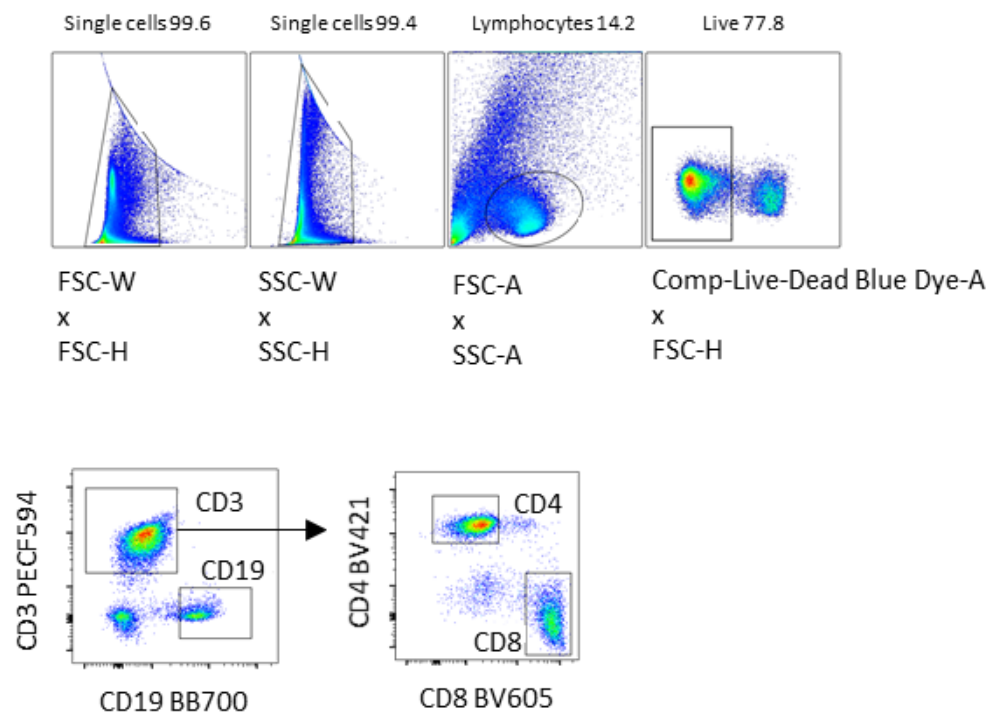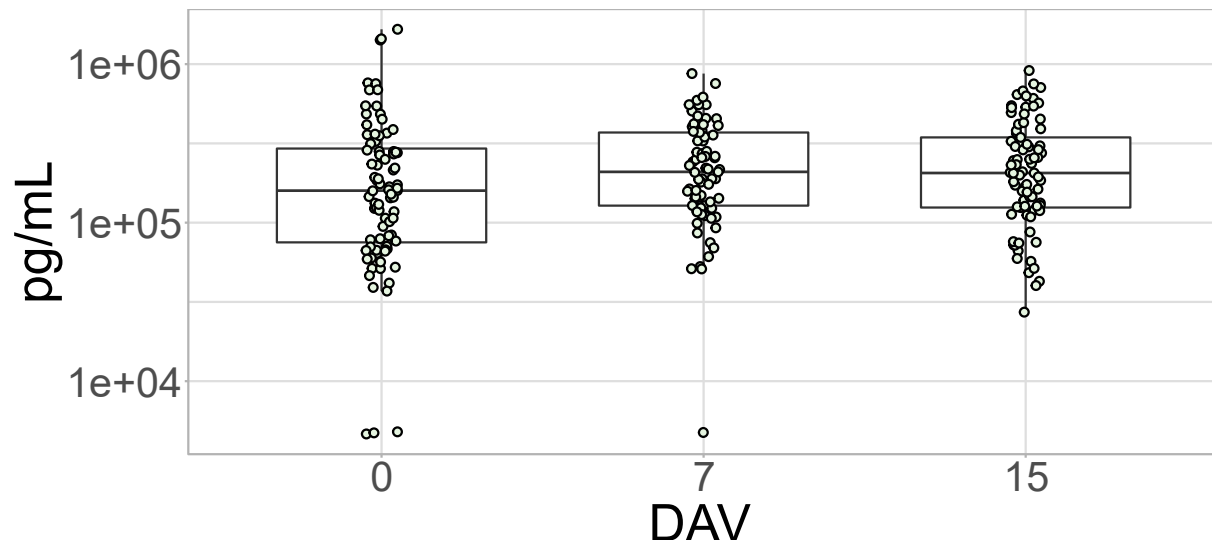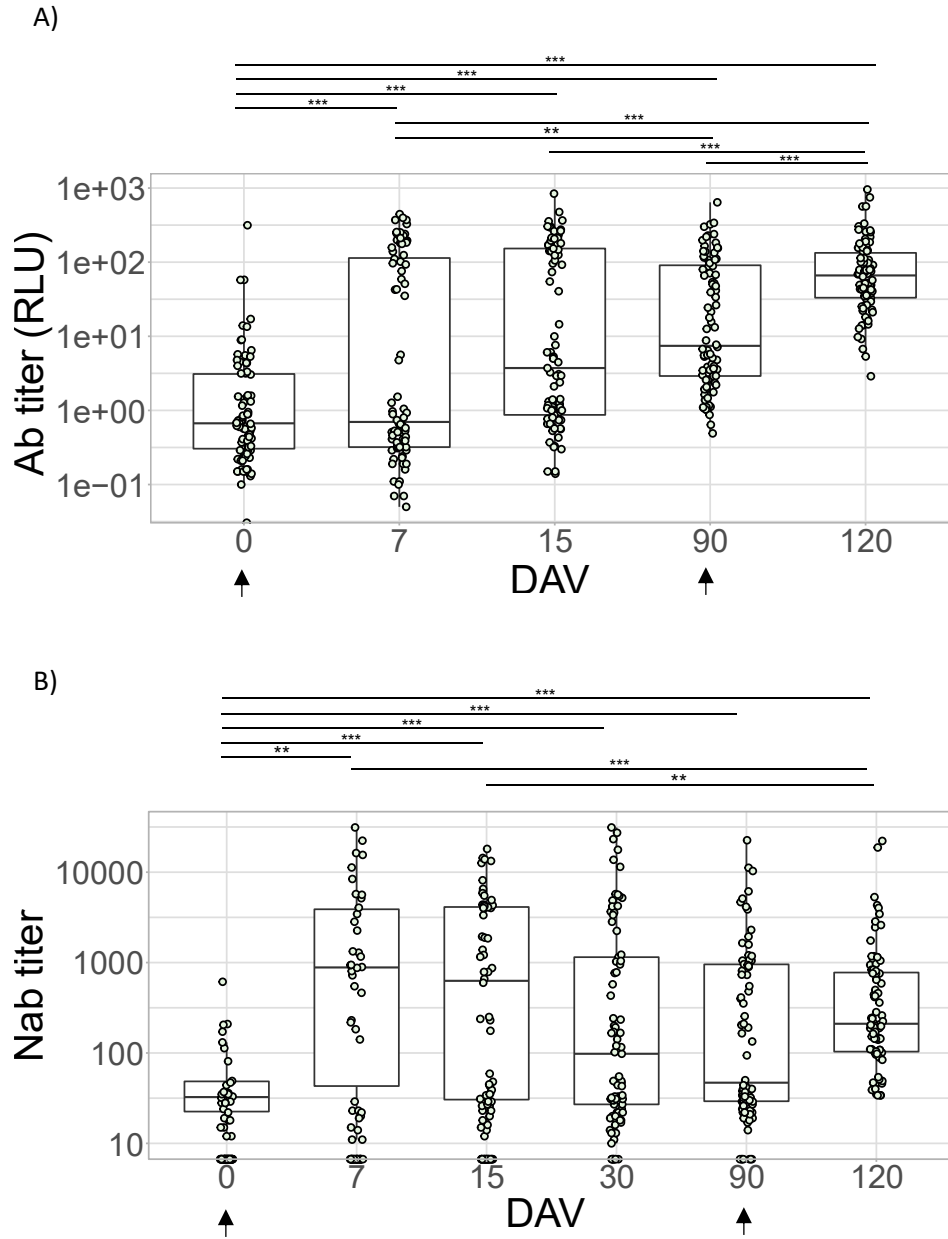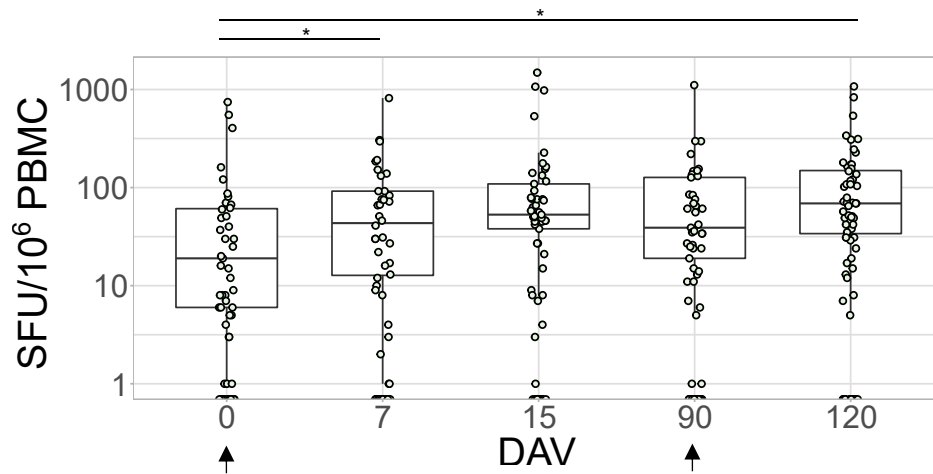**Supplementary Materials**

Supplementary Figure S1. Immunophenotype gating strategy for B and T memory cells.

Supplementary Figure S2. Follow-up D-Dimer plasma quantitation after ChAdOx1 nCoV-19 vaccination analyzed at 0,7 and 15 DAV. Volunteers immunized with prime-boost protocols with ChAdOx1 nCoV-19 on days 0 and 90 respectively. Data represented in boxes with mean and interquartile interval of D-Dimer plasma quantitation in pg/mL. Comparisons between timepoints using Kruskal-Wallis with Dunn's multiple comparison post-test. Sample number varying according to follow-up segment loss. DAV = Days After Vaccination.

A)

B)

Supplementary Figure S3. Follow-up humoral analysis after ChAdOx1 nCoV-19 vaccination analyzed at 0,7, 15, 90 and 120 DAV. Volunteers immunized with prime-boost protocols with ChAdOx1 nCoV-19 on days 0 and 90 respectively (indicated by arrows). Data represented in boxes with mean and interquartile interval of (A) total IgG anti-RBD and (B) Nabs. Total IgG anti-RBD (RBD region-Spike protein of SARS-CoV-2 an ACE-2 receptor ligand) ELISA expressed by RLU (Relative Light Units). Nabs titer quantified by $PRNT_{50\%}$. Comparisons between timepoints using Kruskal-Wallis with Dunn's multiple comparison post-test. Considering *p<0.05, **p<0.01, and ***p<0.001. Sample number varying according to follow-up segment loss. DAV = Days After Vaccination. Nabs=Neutralizing antibodies.

Supplementary Figure S4. Follow-up IFN-γ secretion quantitation after ChAdOx1 nCoV-19 vaccination analyzed at 0,7, 15, 90 and 120 DAV. Volunteers immunized with prime-boost protocols with ChAdOx1 nCoV-19 on days 0 and 90 respectively (indicated by arrows). Data represented in boxes with mean and interquartile interval of D-Dimer plasma quantitation in pg/mL. Comparisons between timepoints using Kruskal-Wallis with Dunn's multiple comparison post-test. Considering *p<0.05, **p<0.01, and ***p<0.001. Sample number varying according to follow-up segment loss. DAV = Days After Vaccination.