

S2 Fig. Correlation of baseline T and NK cell genes with gene expression responses at one day post vaccination and immune response post vaccination.

(A-B) Correlation for baseline expression of KLRF1 with enriched in monocytes gene sets (A) and cell cycle and transcription gene sets (B) at one day post-dose 1.

- (C-D) Heatmap of significantly increased genes in the moderately severe fatigue group of pathways positively correlated with levels of T and NK cell genes at pre-dose 1 (C) and pre-dose 2 (D). Mean z-scores of raw log2 FC (day 1 post-vaccination / pre-dose) are displayed.
   (E) Inhibition of RBD binding to hACE2 receptor measured using the commercial cPASS kit at
- **(E)** Inhibition of RBD binding to hACE2 receptor measured using the commercial cPASS kit at 49 1:20 serum dilution.

 (F) SARS-CoV-2 spike protein-specific responses to pooled Spike protein peptides were assessed with IFN $\gamma$  ELISpot assay at days 0, 7, 10 and 21 of first dose of vaccination. Data underlying this Figure can be found in S2\_Data.