Supplemental Data

Table S1

Phenotype	Cell population
CD34+	HSC/HPC enriched
CD34+CD38-CD45RA-CD90+CD49f+	HSC
CD34+CD38-CD45RA-CD90-CD49f-	MPP
CD34+CD38-CD45RA+CD10+	MLP
CD34+CD38+CD10-CD45RA-	CMP_MEP enriched
CD34+CD38+CD10-CD45RA+	GMP_enriched
FSC-low SSC-low CD3+	T cells
FSC-low SSC-low CD3+CD4+	CD4+ T cells
FSC-low SSC-low CD3+CD8+	CD8+ T cells
FSC-low SSC-low CD3+CD4+CD8+	CD4+CD8+ T cells
FSC-low SSC-low CD3+CD4-CD8-	CD4-CD8- T cells
FSC-low SSC-low CD3+CD56+	NKT cells
FSC-low SSC-low CD3-CD56+	NK cells
FSC-low SSC-low CD19+	B cells
FSC-high SSC-mid CD14+	Monocytes

Table S1: Immunophenotypes. Shown are the parameters used to define primitive and mature hematopoietic cell immunophenotypes.

Table S2

Antibody_target-fluorochrome	Company	Catalog Number
ACE2-FITC	Bioss	bs-0295P-FITC
Rabbit_IgG-FITC (isotype control)	Bioss	bs-1004R-FITC
CD34-APC	BD Biosciences	555824
CD38-PE	BD Biosciences	555460
CD45RA-PE-CF594	BD Biosciences	562298
CD10-PE-Cy7	BD Biosciences	565282
CD90-BV421	BD Biosciences	562556
CD49f-PerCp-Cy5.5	BD Biosciences	562475
CD3-APC	BD Biosciences	555342
CD4-BV421	BioLegend	317433
CD8-PerCp-Cy5.5	BD Biosciences	560662
CD56-PE	BD Biosciences	555516
CD19-PE	BD Biosciences	555413
CD14-BV421	BioLegend	301829

Table S2: Antibodies used in flow cytometry studies. Shown are the antibodies and colors used to define primitive and mature hematopoietic cell immunophenotypes.

Figure S1

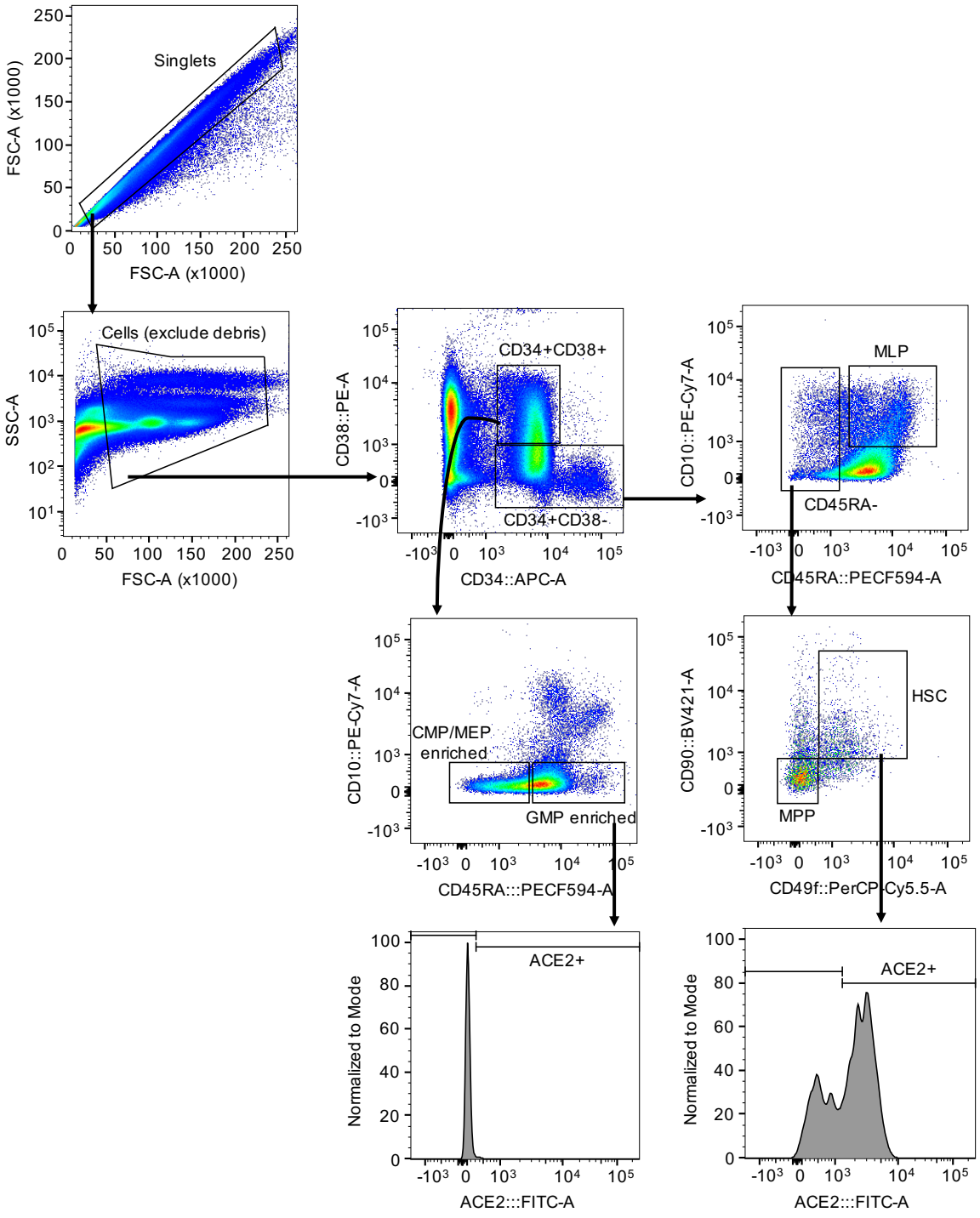

Figure S1: Example gating strategy for cord blood cells. Shown is an example for how HSC/HPC were analyzed by flow cytometry to assess ACE2 cell surface expression.

Figure S2

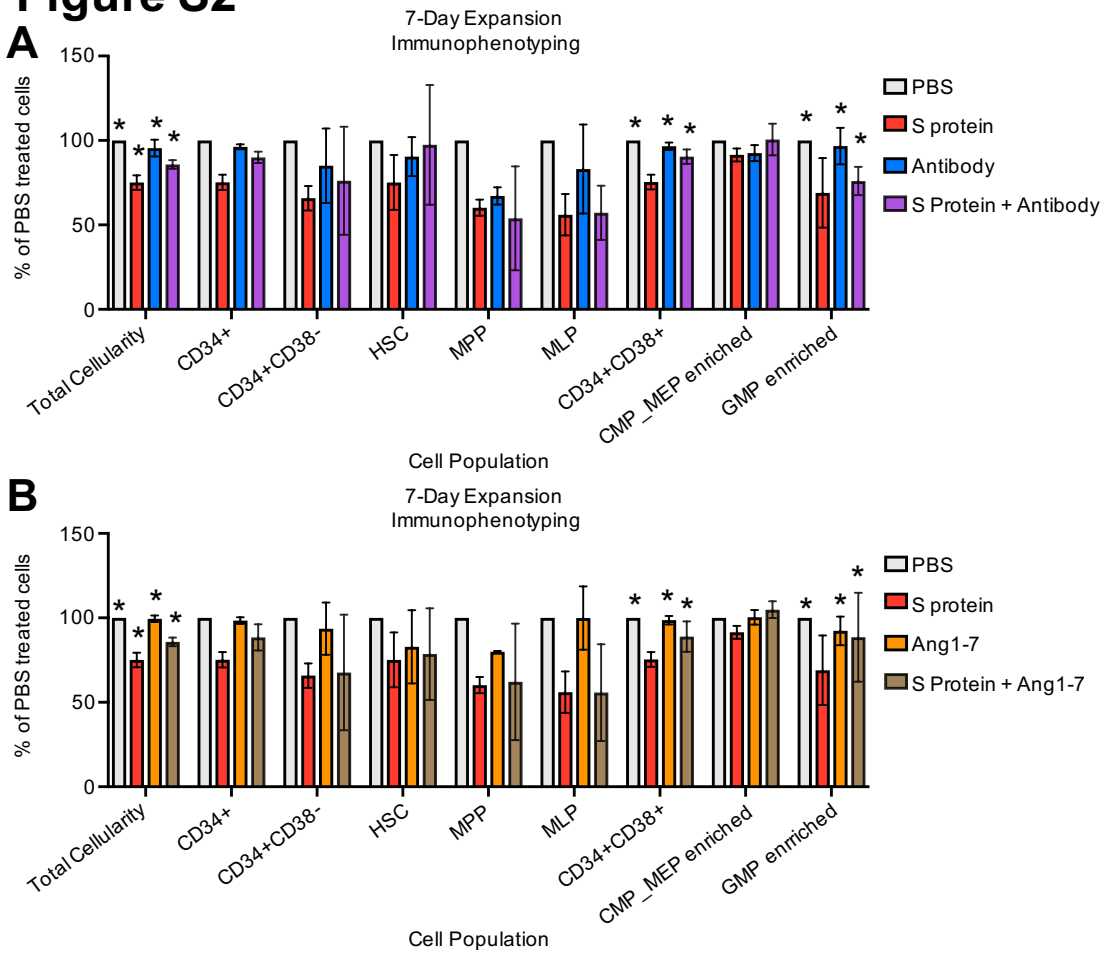

Figure S2: Expansion of immunophenotypically defined HSC/HPC in the presence of S protein and neutralizing agents. A-B) CD34+ enriched cells were plated at 100,000 cells/mL in media with stimulating growth factors and with PBS control, 1 μg/mL recombinant S protein alone, 1 μg/mL S protein pre-incubated with 1 μg/mL SARS-CoV-2 neutralizing antibody (Antibody) (A) or 1 μg/mL S protein with 1 μg/mL Angiotensin1-7 (Ang1-7) (B) and grown for 7 days in 5% O_2 and 5% CO_2 at 37°C. Cells were then analyzed by flow cytometry for the indicated cell populations, total cell numbers were calculated, and are shown as a percentage of PBS treated cells stats: generalized linear modelling followed by ANOVA with TukeyHSD post hoc tests. Significance codes indicate comparisons to Day 0 totals. *P<0.05.

Figure S3

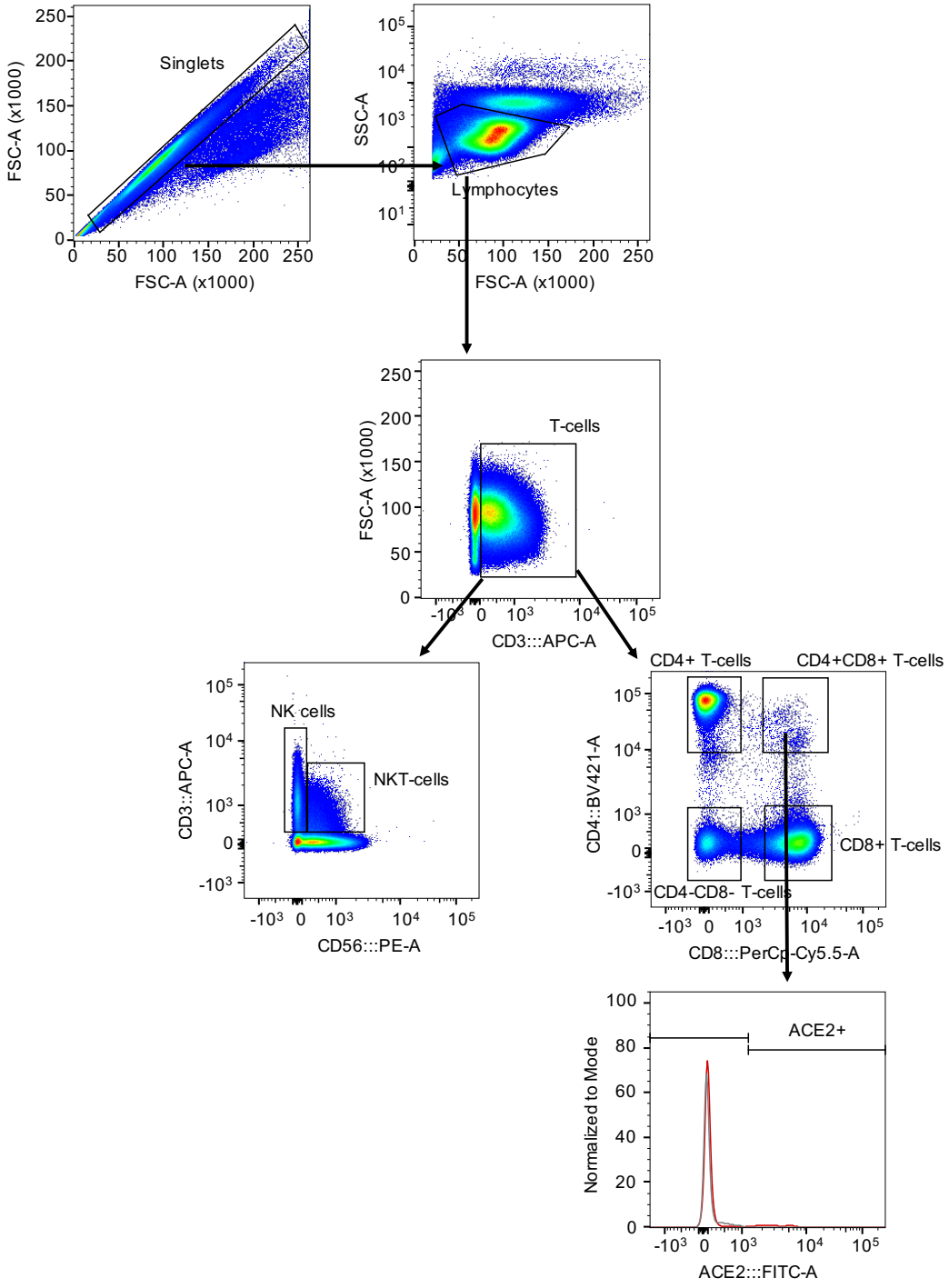

Figure S3: Example gating strategy for peripheral blood cells. Shown is an example for how T-cells were analyzed by flow cytometry to assess ACE2 cell surface expression.