

Materials List for

Profiling of Surface Protein Epitopes on Viral Particles by Multiplex Dual-Reporter Strategy

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Materials

Name	Company	Catalog Number	Comments
ACE2-Biotin	Acro Biosystems (Newark, DE)	AC2-H82E6-25 ug	Conc: 340 µg/mL, LOT#BV35376-203HFI-2128
Anti-Goat IgG, PE-conjugated	Jackson ImmunoResearch (West Grove, PA)	705-116-147	Host species: Donkey
Anti-Human IgG R-PE	Life Technologies/Thermo Fisher (Waltham, MA)	H10104	Conc: 0.15 mg/mL, LOT#2079224, Host species: Goat
Anti-Mouse IgG, PE-conjugated	Jackson ImmunoResearch (West Grove, PA)	115-116-146	Host species: Goat
Anti-Rabbit IgG, PE-conjugated	Jackson ImmunoResearch (West Grove, PA)	111-116-144	Host species: Goat
Biotin	Thermo-Fisher Scientific (Waltham, MA)	20RUO	100 mM, pH 10 Conc. 1 mg/mL
Blocker Casein in PBS	Thermo-Fisher Scientific (Waltham, MA)	37528	LOT#VD301372
Blocker reagent for ELISA (BRE)	Roche (Basel, Switzerland)	11112589001	
Brilliant Violet 421 anti-DYKDDDDK Tag Antibody (Anti-FLAG) 0.2 mg/ml, rat IgG2a, λ	BioLegend (Amsterdam, The Netherlands)	637321	
Bovine serum albumin (BSA)	Saveen & Werner (Limhamn, Sweden)	B2000-500	LOT#04D5865
EDC (1-Ethyl-3-[3-dimethylaminopropyl]carbodiimide hydrochloride)	Proteochem (Hurricane, UT)	C1100-custom (65 mg)	LOT# MK3857
Fetal calf serum (FCS)	Gibco/Thermo Fisher (Waltham, MA)	10270-106	
Goat anti-ACE2 polyclonal antibody	R&D Systems/Bio-Techne (Minneapolis, MN)	AF933	Host species: Goat
Goat IgG	Bethyl Labs (Montgomery, TX)	P50-200	LOT#P50-200-6
L-glutamine	Thermo-Fisher Scientific (Waltham, MA)	25030024	
Low-bind 1.5 mL microfuge tubes	VWR (Radnor, PA)	525-0133	
MagPlex-C Microspheres	Luminex Corporation (Austin, TX)	MC10XXX-01	
MEM tissue culture media	Gibco/Thermo Fisher (Waltham, MA)	21430-020	

Microplate, 96-Well, Polystyrene, Half-area, Clear	Greiner Bio-One (Kremsmünster, Austria)	675101	
NaHCO ₃	Gibco/Thermo Fisher (Waltham, MA)	25080-060	
Neutravidin	Thermo-Fisher Scientific (Waltham, MA)	31000	LOT#UK292857
PBS tablets	Medicago AB (Uppsala, Sweden)	09-9400-100	LOT#272320-01
Penicillin/Streptomycin	Gibco/Thermo Fisher (Waltham, MA)	15140122	
Poly(vinyl alcohol)	Sigma-Aldrich (St. Louis, MO)	360627	
Polyvinylpyrrolidone	Sigma-Aldrich (St. Louis, MO)	437190	
ProClin 300	Sigma-Aldrich (St. Louis, MO)	48915-U	
Rabbit IgG	Bethyl Labs (Montgomery, TX)	P120-301	LOT#12
scFv-FAb1	In-house production		Human Antibody Therapeutics Unit, Scilifelab, Sweden. Monoclonal scFv. Conc: 0.12 mg/mL.
scFv-FAb2	In-house production		Human Antibody Therapeutics Unit, Scilifelab, Sweden. Monoclonal scFv. Conc batch1: 0.38 mg/mL. Conc batch2: 0.45 mg/mL.
scFv-FAb3	In-house production		Human Antibody Therapeutics Unit, Scilifelab, Sweden. Monoclonal scFv. Conc: 0.34 mg/mL.
scFv-FAb4	In-house production		Human Antibody Therapeutics Unit, Scilifelab, Sweden. Monoclonal scFv. Conc: 2.85 mg/mL.
scFv-FAb5	In-house production		Human Antibody Therapeutics Unit, Scilifelab, Sweden. Monoclonal scFv. Conc: 2.7 mg/mL.
SARS-CoV-2 infectious particles, Swedish isolate	In-house production		The Public Health Agency of Sweden
SARS-CoV-2 Spike Antibody (Hu-anti-S1)	Novus Biologicals (Centennial, CO)	NBP2-90980	Monoclonal antibody. Conc: 1 mg/mL. Host: Human. Clone: CR3022. Isotype: IgG1 Kappa. LOT#T201B06
Sodium phosphate monobasic, anhydrous	Sigma-Aldrich (St. Louis, MO)	S3139	
Sulfo-NHS (N-hydroxysulfosuccinimide)	Thermo-Fisher Scientific (Waltham, MA)	24510	LOT# XH321563
Tween	Thermo-Fisher Scientific (Waltham, MA)	BP337-50	LOT#194435
Ultraviolet lamp	Vilber Lourmat GmbH (Eberhardzell, Germany)	VL-215.G	Wavelength = 254 nm; 2 × 15-watt bulbs
Vero E6 cells	ATCC (Manassus, VA)	CRL-1586	
xMAP INTELLIFLEX DR-SE (dual-reporter flow instrument)	Luminex Corporation (Austin, TX)	INTELLIFLEX-DRSE-RUO	