

Appendix 1. Virus and pseudovirus in this study

No.	Name of virus	Supplier
1	SARS-CoV-2 pseudovirus	Professor Wei Wang lab, Wuhan institute of virology
2	HCoV-OC43 pseudovirus	Professor Wei Wang lab, Wuhan institute of virology
3	SARS-CoV-2 WT (2019-nCoV-WIV04)	Wuhan institute of virology
4	SARS-CoV-2 (B.1.1.7) (Alpha)	Wuhan institute of virology
5	SARS-CoV-2 (B.1.351) (Beta)	Wuhan institute of virology
6	SARS-CoV-2 (B.1.617) (Delta)	Wuhan institute of virology
7	SARS-CoV-2 (B.1.1.529.5) (Omicron BA.5)	Wuhan institute of virology

Appendix 2. Primers

No.	Target gene	Primer pair	Supplier
1	SARS-CoV-2 RBD	Forward: 5'-CAATGGTTTAAACAGGCACAGG-3' Reverse: 5'-CTCAAGTGTCTGTGGATCACG-3'	Suzhou Genepioneer Biotechnologies Co., Ltd.
2	HCoV-OC43	Forward: 5'- ATGTTAGGCCGATAATTGAGGACTAT-3' Reverse: 5'- AATGTAAAGATGGCCGCGTATT -3'	
3	Human GAPDH	Forward: 5'- TCCTTGGAGGCCATGTGGGCCAT -3' Reverse: 5'- TGATGACATCAAGAAGGTGGTGAAG -3'	

Appendix 3. Antibodies

No.	Target protein	Purpose	Supplier	Cat. No.
1	CK7	Immunofluorescence	Abcam	ab181598
2	P63	Immunofluorescence	Abcam	ab124762
3	SARS-CoV-2 NP	Immunofluorescence	GeneTex	GTX635712
4	Muc5AC	Immunofluorescence	Abcam	ab3649
5	Muc5AC	Flow cytometry	Abcam	ab77576
6	β -tubulin	Immunofluorescence/ Flow cytometry	Abcam	ab108342
6	CK5	Flow cytometry	Invitrogen	MA5-17057
7	CD68	Flow cytometry	Invitrogen	14-0688-82
8	CD45	Flow cytometry	Invitrogen	58-0459-42
9	C5a-R	Flow cytometry	Invitrogen	MA1-81761
10	CD3	Flow cytometry	Invitrogen	14-0037-82
11	CD4	Flow cytometry	Invitrogen	11-0041-82
12	CD8	Flow cytometry	Invitrogen	11-0081-82
13	Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488)	Immunofluorescence	Abcam	ab150077
14	Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647)	Immunofluorescence	Abcam	ab150079
15	Goat Anti-Mouse IgG H&L (Alexa Fluor® 405)	Immunofluorescence	Abcam	ab175660

Appendix 4. Drug compounds

No.	Compound name	Supplier	Cat. No.
1	Camostat	MCE	HY-13512
2	Remdesivir	MCE	HY-104077
3	Bergamottin	MCE	HY-N2194