

Supplemental Information

Cross-reactive Antibody Response

between SARS-CoV-2 and SARS-CoV Infections

Huibin Lv, Nicholas C. Wu, Owen Tak-Yin Tsang, Meng Yuan, Ranawaka A.P.M. Perera, Wai Shing Leung, Ray T.Y. So, Jacky Man Chun Chan, Garrick K. Yip, Thomas Shiu Hong Chik, Yiquan Wang, Chris Yau Chung Choi, Yihan Lin, Wilson W. Ng, Jincun Zhao, Leo L.M. Poon, J.S. Malik Peiris, Ian A. Wilson, and Chris K.P. Mok

Table S1. Patient information, ELISA data, and neutralization data. Related to Figure 1.

ID	Gender	Age	day post-symptom onset	ELISA (OD ₄₅₀ value at 1:100 dilution)				MN titer	
				SARS-CoV-2 spike	SARS-CoV spike	SARS-CoV-2 RBD	SARS-CoV RBD	SARS-CoV-2	SARS-CoV
SARS-CoV-2 patient #1	M	56	6	0.30	0.21	0.03	0.01	<1:10	<1:10
SARS-CoV-2 patient #2	F	62	4	0.32	0.23	0.07	0.03	<1:10	<1:10
SARS-CoV-2 patient #3	F	62	22	1.97	0.66	1.46	0.12	1:160	<1:10
SARS-CoV-2 patient #4	M	63	22	1.95	0.98	1.56	0.58	1:80	<1:10
SARS-CoV-2 patient #5	M	47	8	0.52	0.40	0.20	0.03	1:80	<1:10
SARS-CoV-2 patient #6	M	64	19	1.81	0.54	1.40	0.50	1:320	<1:10
SARS-CoV-2 patient #7	F	73	18	1.60	0.71	0.90	0.17	1:80	<1:10
SARS-CoV-2 patient #8	M	72	18	1.94	1.19	1.21	0.14	1:80	<1:10
SARS-CoV-2 patient #9	F	37	2	-0.25	-0.10	-0.05	-0.39	<1:10	<1:10
SARS-CoV-2 patient #10	F	72	10	1.44	0.41	1.04	-0.03	1:40	<1:10
SARS-CoV-2 patient #11	M	60	22	2.53	1.38	2.24	1.15	1:160	<1:10
SARS-CoV-2 patient #12	M	56	13	1.57	0.64	1.37	0.00	1:320	<1:10
SARS-CoV-2 patient #13	F	55	11	0.03	-0.09	0.05	0.08	<1:10	<1:10
SARS-CoV-2 patient #14	F	63	19	2.44	1.12	2.06	1.42	1:640	<1:10
SARS-CoV-2 patient #15	M	37	14	1.85	1.60	1.43	0.59	1:320	1:10
SARS-CoV patient #1	NA	NA	NA	0.41	0.53	0.28	0.55	<1:10	1:80
SARS-CoV patient #2	NA	NA	NA	0.80	0.20	0.30	1.28	<1:10	1:40
SARS-CoV patient #3	NA	NA	NA	0.27	0.22	0.12	0.76	<1:10	1:80
SARS-CoV patient #4	NA	NA	NA	0.07	0.04	-0.03	-0.08	<1:10	<1:10
SARS-CoV patient #5	NA	NA	NA	0.13	0.11	0.04	0.17	<1:10	<1:10
SARS-CoV patient #6	NA	NA	NA	0.43	0.16	0.25	1.36	<1:10	1:160
SARS-CoV patient #7	NA	NA	NA	0.77	0.47	0.63	2.34	<1:10	1:320
Healthy donor #1	NA	NA	NA	0.31	0.22	0.05	0.06	ND	ND
Healthy donor #2	NA	NA	NA	0.11	0.20	-0.15	0.00	ND	ND
Healthy donor #3	NA	NA	NA	0.06	0.06	0.07	0.07	ND	ND
Healthy donor #4	NA	NA	NA	0.07	0.07	0.05	0.06	ND	ND
Healthy donor #5	NA	NA	NA	0.05	0.05	0.05	0.06	ND	ND
Healthy donor #6	NA	NA	NA	0.05	0.05	0.04	0.07	ND	ND
Healthy donor #7	NA	NA	NA	0.05	0.05	0.06	0.06	ND	ND
Healthy donor #8	NA	NA	NA	0.05	0.05	0.06	0.07	ND	ND

NA = Not available/applicable

ND = Not determined

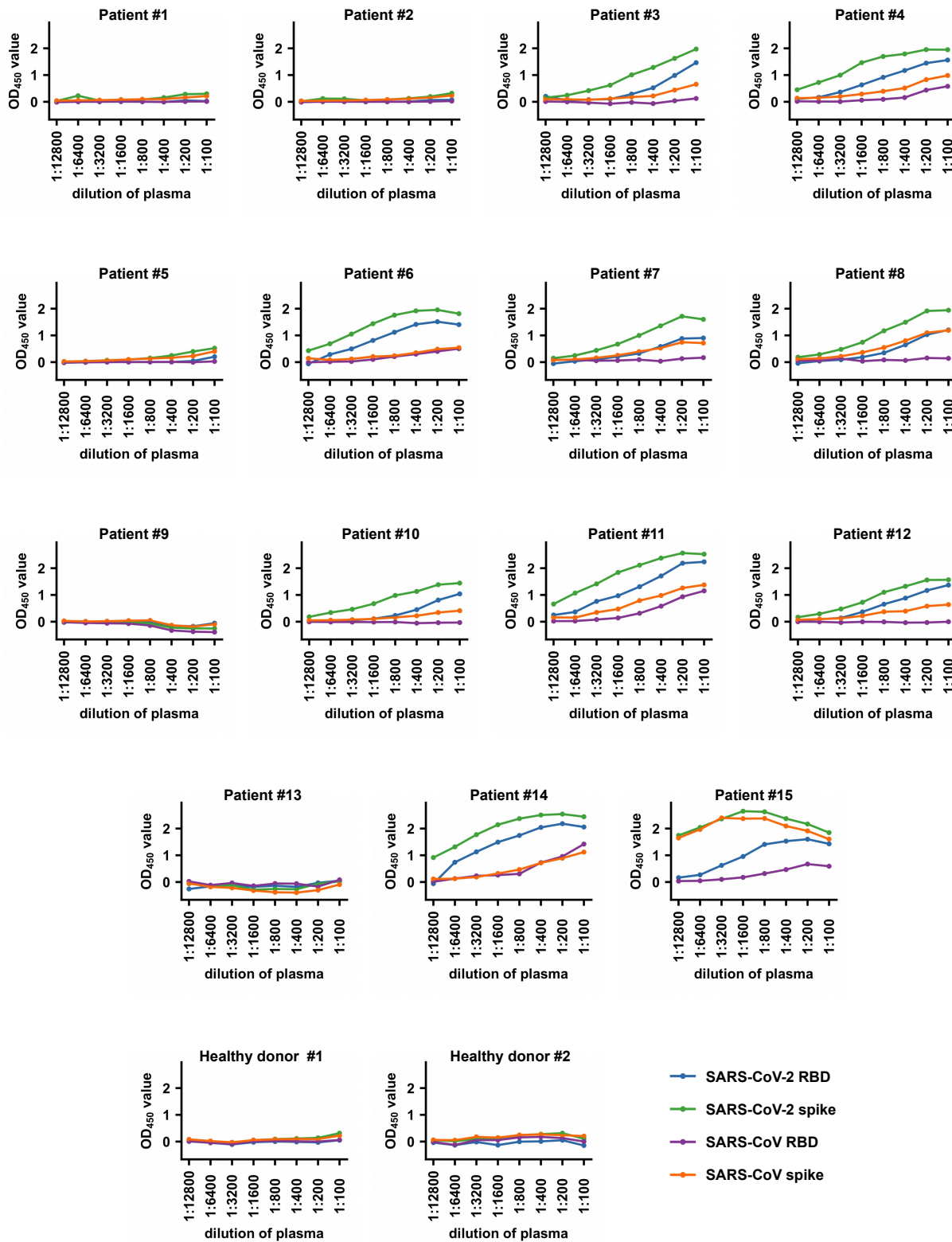


Figure S1. ELISA of patient samples at different dilutions. Related to Figure 1. Binding of different dilutions of plasma samples from 15 patients and 2 healthy donors to spike and RBD from SARS-CoV-2 and SARS-CoV was measured by ELISA. The mean OD₄₅₀ values calculated after testing each plasma sample in duplicate are shown.

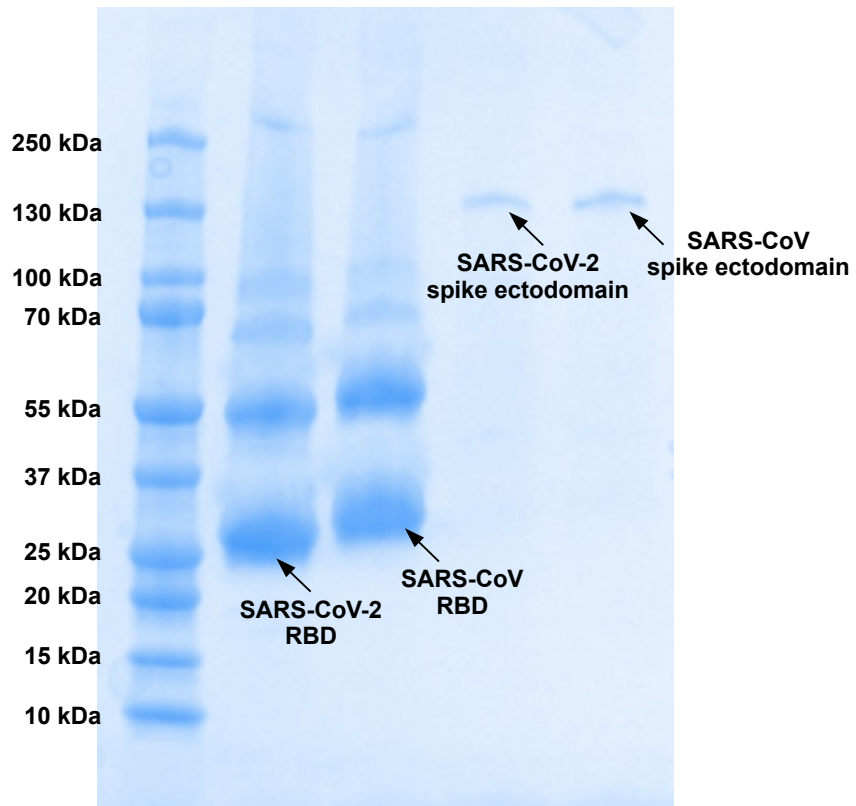


Figure S2. Protein expression. Related to Figure 1. SARS-CoV-2 and SARS-CoV ectodomain and RBD proteins were purified by Ni-NTA beads from insect cell expression supernatant and analyzed by Coomassie staining on an SDS-PAGE gel. The proteins were further purified by size exclusion chromatography before use.