

Table S2. IC50 (Figure 1C and D) of BNT162b2 elicited antibodies against viruses with variant spike proteins. Sera were collected from COVID-19 unexperienced and experienced donors. Age, Sex and Comorbidities are shown.

BNT162b2 (Naive)																			
Donor	Age	Sex	Comorbidities	D614G				Beta				Delta				Omicron			
				Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster	Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster	Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster	Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster
1	34	M	None	ND	1074	165	4672	ND	227	97	733	ND	187	221	1060	ND	27	1	300
2	29	F	None	ND	564	319	3561	ND	296	180	1344	ND	309	250	3641	ND	98	54	347
3	37	F	Allergy	ND	624	283	4203	ND	410	294	1359	ND	801	462	4867	ND	155	63	169
4	62	M	Hypertension, Hyperlipidemia	ND	368	185	3361	ND	320	158	2789	ND	541	325	5654	ND	35	15	525
5	39	M	None	ND	1413	1096		ND	158	193		ND	720	579		ND	7	ND	
6	37	F	None	ND	2538	406		ND	499	347		ND	1668	596		ND	20	185	
7	52	F	Hypertension	ND	1542	852	8063	ND	285	235	3986	ND	908	470	3152	ND	ND	ND	363
8	34	M	Hypothyroidism	ND	534	535	3141	ND	686	397	1569	ND	926	230	3796	ND	57	76	366
9	43	M	None	ND	2480	179		ND	404	254		ND	746	879		ND	30	56	
10	38	F	Asthma, Anemia, Tinea versicolor	ND	748	238	7492	ND	184	124	920	ND	770	631	4976	ND	56	76	506
11	38	M	None	ND	202	1609	737	ND	780	393	1904	ND	1073	585	6109	ND	83	51	391
12	52	F	None	ND	1368	1520	8796	ND	501	404	2217	ND	1202	450	4950	ND	159	106	276
Mean (SD)	41 (9)				1121 (743)	616 (505)	4892 (2517)		396 (185)	256 (105)	1869 (959)		821 (377)	473 (188)	4245 (1445)		61 (51)	57 (50)	360 (104)

BNT162b2 (Experienced)																			
Donor	Age	Sex	Comorbidities	D614G				Beta				Delta				Omicron			
				Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster	Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster	Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster	Pre-vaccination	1 month post vax-2	7-8 month post vax-2	1 month post booster
1	45	M	Asthma	107	3046	1321	19136	19	2994	2033	17987	40	2460	1737	15778	ND	252	175	1142
2	37	F	None	32	2218	1885	26367	ND	2084	806	20458	40	2842	2355	15311	ND	236	125	1197
3	54	F	Hypertension, Obesity	41	6066	4301	14407	28	2132	843	7861	31	2470	2100	14807	ND	167	104	962
4	54	M	Cardiovascular disease	64	2137	1752	7239	ND	845	1045	5420	ND	1757	476	11104	18	254	144	922
5	25	F	None	84	5849	4910	14302	49	1814	853	10805	ND	2186	909	8696	14	39	ND	293
6	42	F	Diabetes, Herpes simplex	56	6493	4721	11001	25	1517	1138	6501	96	3405	1058	12103	ND	190	111	1354
7	43	M	None	8	3895	4003	11623	ND	2811	835	5640	ND	2185	1624	24641	ND	208	105	579
Mean (SD)	43 (10)			56 (31)	4243 (1734)	3270 (1435)	14868 (5790)	30 (11)	2028 (683)	1079 (406)	10668 (5701)	52 (26)	2472 (490)	1465 (626)	14634 (4722)	16 (2)	192 (69)	109 (25)	921 (344)