

**Supplementary Table S1.** Concentrations of SARS-CoV-2 antibodies.

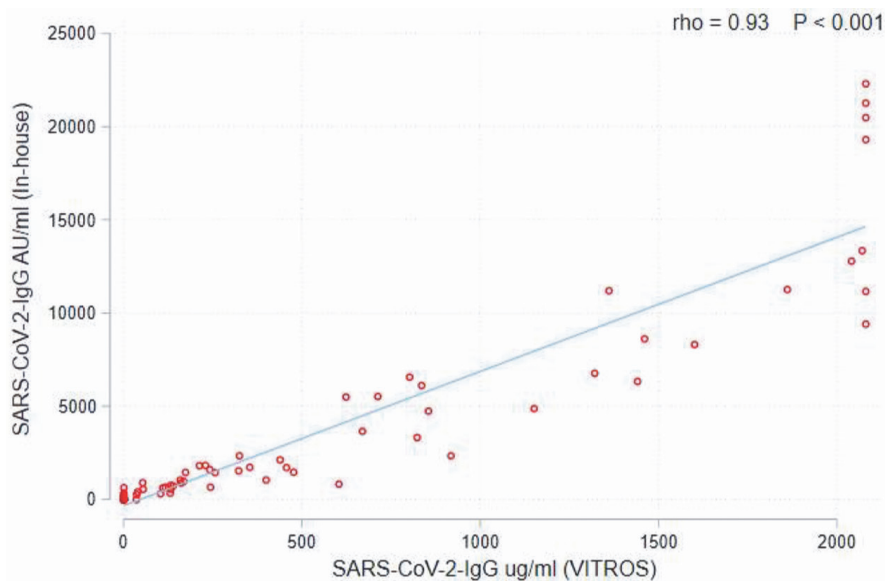
Concentrations of SARS-CoV-2 antibodies in serum in the COPANARD cohort before and after revaccination and in COPANARD controls and blood donors after a two-dose-mRNA vaccine measured in different assays.

Sample		Total SARS-CoV-2-abs AU/ml				SARS-CoV-2 IgG AU/ml			
		B	F1	F2	F3	B	F1	F2	F3
COPANAR D Patients	N	17	16	14	17	17	17	15	17
	Mean	0	53	192	165	8	136	368	497
	p25	0	0	0	0	0	0	0	0
	p50	0	0	0	0	0	0	0	34
	p75	0	2	364	306	0	0	366	681
COPANAR D controls	N	29	23		27	25	19		28
	Mean	276	1.154		1.070	139	1.465		1.298
	p25	63	857		737	0	850		740
	p50	249	1.210		1.040	130	1.530		1.215
	p75	413	1.420		1.360	168	2.080		2.080
Blood donor:	N	32				32			
	Mean	827				1.115			
	p25	729				428			
	p50	814				886			
	p75	916				1.950			

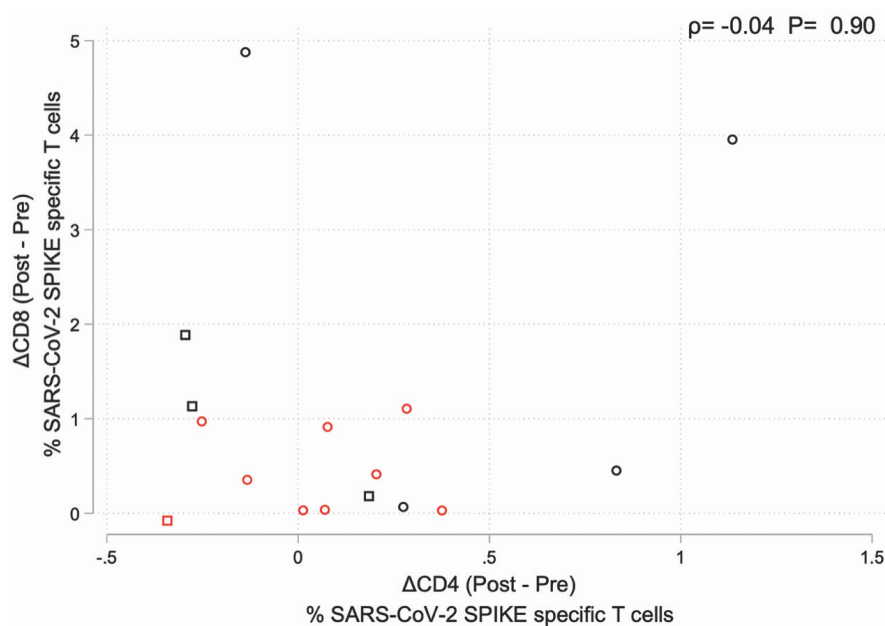
Sample		Neutralizing SARS-CoV-2-abs AU/ml		SARS-CoV-2 IgA AU/ml		SARS-CoV-2 IgM AU/ml		SARS-CoV-2 IgG AU/ml	
		B	F3	B	F3	B	F3	B	F3
COPANAR D Patients	N	17	17	17	17	17	17	17	17
	Mean	23	3001	251	0	201	18	59	13707
	p25	0	22	0	0	0	0	0	0
	p50	0	39	0	0	26	0	0	30
	p75	22	424	0	0	140	0	0	10060
COPANAR D controls	N	29		29		29		29	
	Mean	155		337		289		669	
	p25	59		0		0		230	
	p50	109		0		67		565	
	p75	204		54		174		908	
Blood donors	N	32		32		32		32	
	Mean	2525		0		62		7491	
	p25	614		0		0		2095	
	p50	1482		0		0		5831	
	p75	3340		0		33		11195	

Sample		%SARS-CoV-2 SPIKE specific CD4+ T-cells		%SARS-CoV-2 SPIKE specific CD8+ T-cells	
		B	F3	B	F3
COPANAR D Patients	N	16	17	16	17
	Mean	0.60	0.69	0.48	1.41
	p25	0.05	0.23	0.15	0.40
	p50	0.43	0.51	0.31	1.00
	p75	0.92	0.92	0.66	1.77
COPANAR D controls	N	28		28	
	Mean	0.31		0.27	
	p25	0.12		0.04	
	p50	0.28		0.14	
	p75	0.45		0.40	
Blood donors	N	31		31	
	Mean	0.38		0.19	
	p25	0.11		0.06	
	p50	0.24		0.16	
	p75	0.51		0.27	

N = number of observations, p25 = 25th percentile, p50 = 50th percentile, p75 = 75th percentile, B = baseline visit, F3= 6 weeks after last booster/re-vaccination, abs = antibodies



**Supplementary Fig. S1.** Correlation between commercial and in-house SARS-CoV-2-IgG assays. Correlation between assays is calculated by Spearman's rho.



**Supplementary Fig. S2.** Correlation between change in CD4+ and CD8+ SARS-CoV-2 SPIKE specific T cells for cases receiving two-dose COVID-19 revaccination.

Red = negative for total SARS-CoV-2 abs after revaccination,

Black = positive for total SARS-CoV-2 abs after revaccination

Circle = No measurable CD19+CD45+ B-cells prior to revaccination

Square = Measurable CD19+CD45+ B-cells prior to revaccination

Correlation between change in CD4+ and CD8+ T-cells are calculated by Spearman's rho.