Supplementary

Table S1. Summary table of participants vaccinated with Sputnik V

	Sputnik V (up to 6 months)	Sputnik V + asymptomatic* COVID-19	Sputnik V + mild COVID-19
Number of individuals	31	8	12
Age, years**	33 (25-47)	38.5 (27.25-44.75)	36 (30.25-42.5)
Male sex	16 (51.6%)	6 (75%)	11 (91.7%)
RBD-specific IgG, BAU/ml **	416.6 (298.8-525.9)	878.1 (390.1-2772)	767.2 (516.5-1459)

* No COVID-19 in anamnesis, SARS-CoV-2 N-protein positive IgG.

** values are median (interquartile range).

Table S2. Summary table of participants vaccinated with BNT162b2 (2w, 3m, 6m)

	BNT162b2
Number of individuals	17
Age, years*	37 (31-48)
Male sex	9 (53%)
RBD-specific IgG, BAU/ml *	562.7 (294.9-1640)
RBD-specific IgG at time point "2 weeks after vaccination", BAU/ml *	2326 (1466-3562)
RBD-specific IgG at time point "3 months after vaccination", BAU/ml *	562.7 (365-901.8)
RBD-specific IgG at time point "6 months after vaccination", BAU/ml *	195.2 (133.2-318.5)

* values are median (interquartile range).

Table S3. Summary table of COVID-19 convalescent participants (samples collected at 1 to 3 months from symptom onset in march to December 2020, Italy and in January to March 2021 in Russia)

	COVID-19
Number of individuals	23
Age, years*	42 (36-50)
Male sex	13 (56.5%)
RBD-specific IgG, BAU/ml *	266.5 (139.1-651.2)

* values are median (interquartile range).

Table S4. Decrease of NtAb to Omicron variant vs B.1 variant in sera of vaccinated according to basic level of RBD-specific IgG

Group	Sputnik V		BNT162b2	
	NtAb decrease, folds	% of sera with detectable NtAb	NtAb decrease, folds	% of sera with detectable NtAb
Total	8.1	74.2	21.4	56.9
0-25%	10.4	25	24.5	15.4
>25-50%	6.2	87.5	19.8	46.2
>50-75%	11.3	87.5	16.9	76.9
>75-100%	5.9	100	25.4	83.3
0-50%	8.0	56.3	22.0	34.6
>50-100%	8.4	93.3	20.5	80
>25-75%	8.4	87.5	18.3	65.4
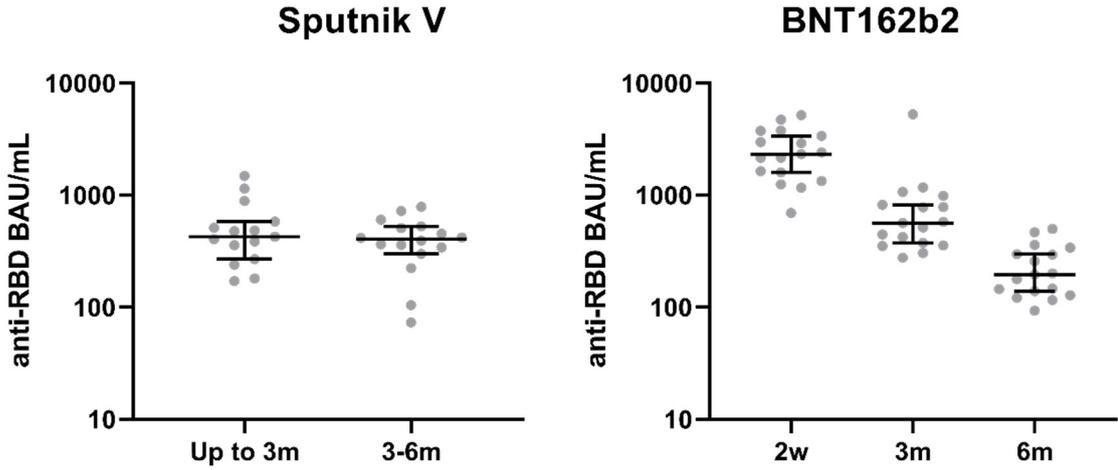
Figure S1. RBD-specific IgG (BAU/ml) in vaccinated individuals, median and 95% CI. W – weeks, m – months.

Spearman r	
r	0.6876
95% confidence interval	0.4317 to 0.8410

| Spearman r	
r	0.5607
95% confidence interval	0.3299 to 0.7283
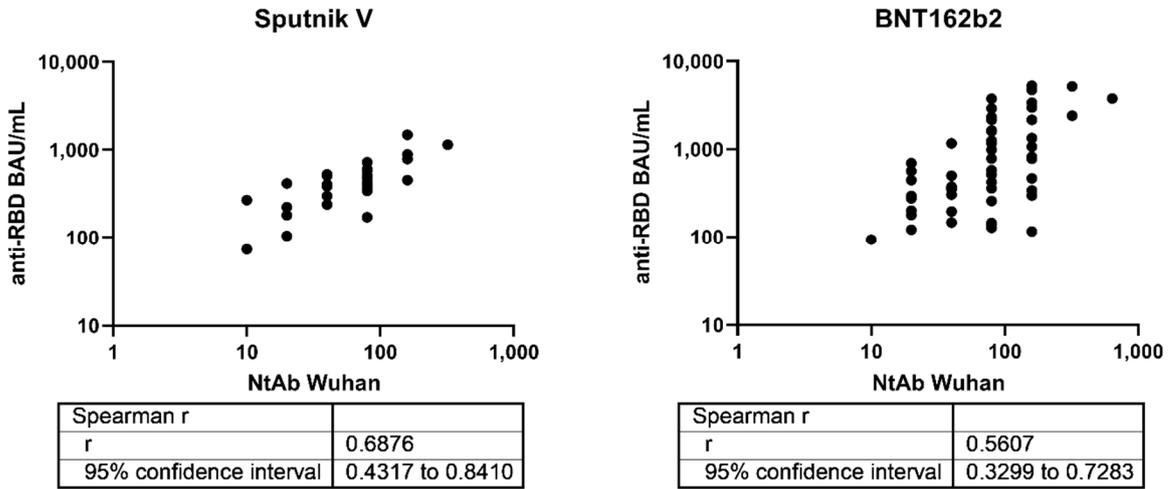
Figure S2. Correlation of RBD-specific IgG and NtAb titers in vaccinated individuals. Graphs show Spearman coefficient of correlation r and 95% CI.