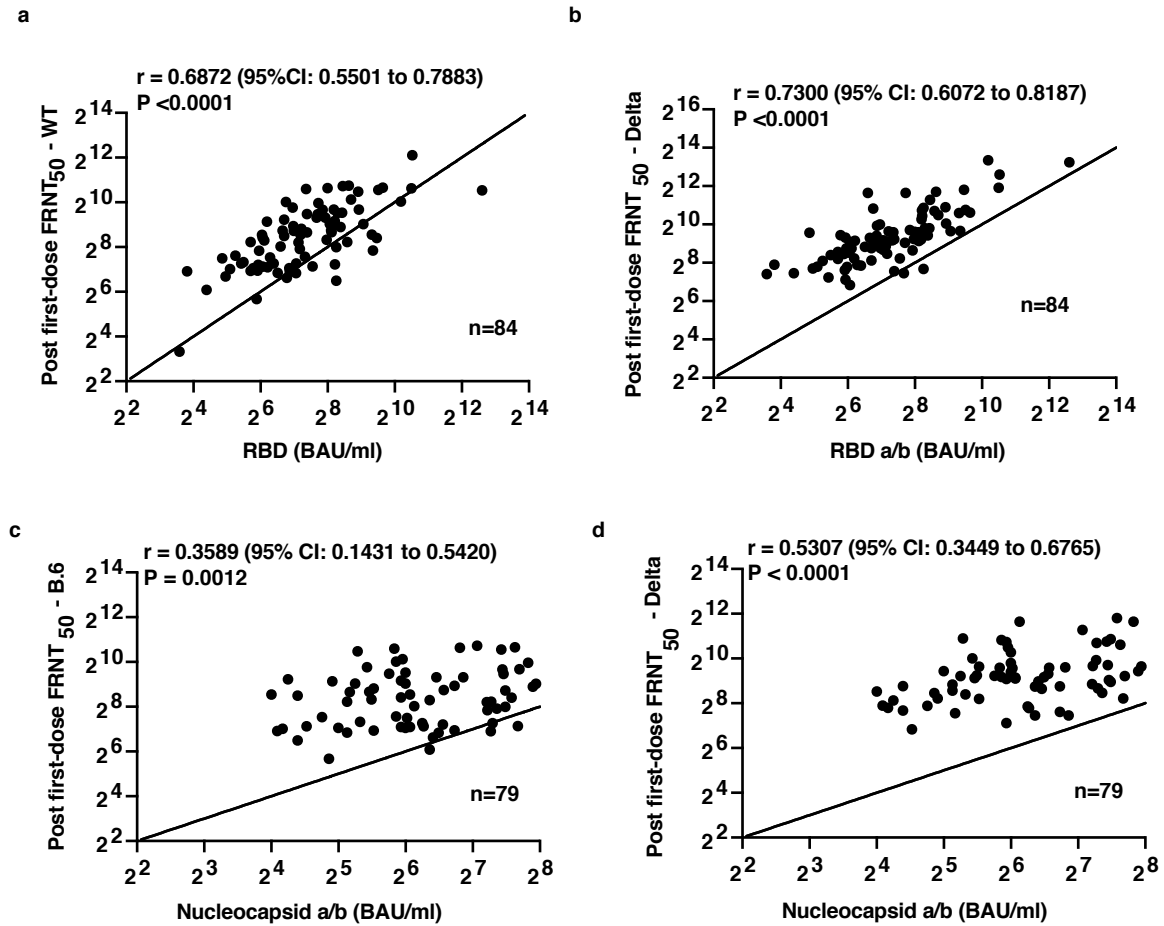
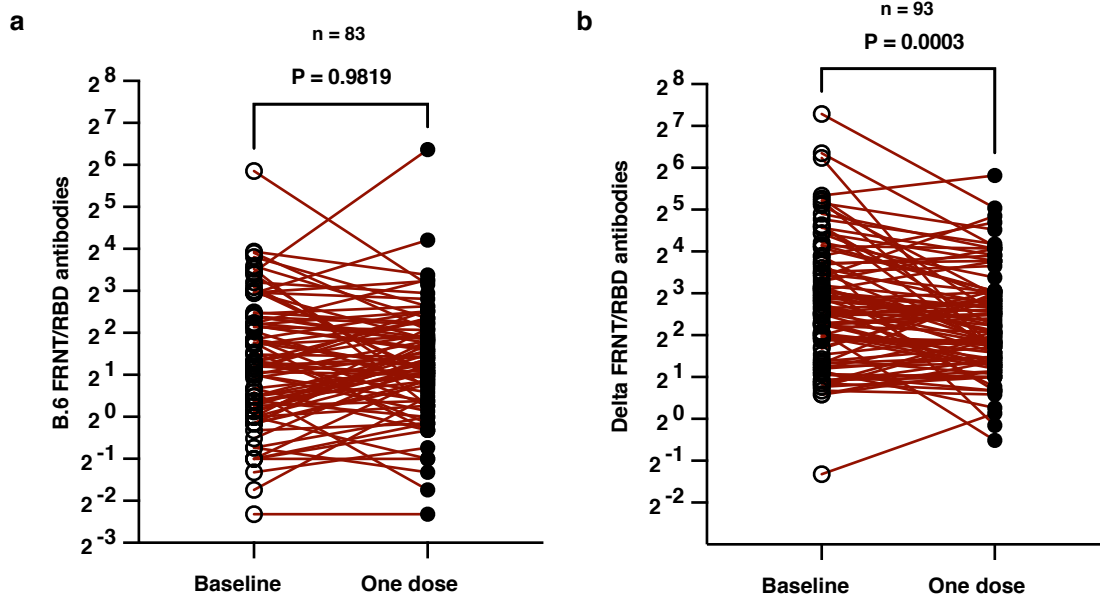


Supplementary Figure S1



Supplementary Figure S1: Neutralization antibody titers by FRNT correlate with RBD and N antibody titers by ELISA. Spearman correlation (r) between RBD-ELISA binding antibody units (BAU/ml) and post-vaccination FRNT₅₀ titers against the (a) B.6 lineage (WT) or the (b) Delta variant virus. Spearman correlation (r) between N-ELISA binding antibody units (BAU/ml) and post-vaccination FRNT₅₀ titers against the (c) B.6 lineage (WT) or the (d) Delta variant virus. Two-tailed t test P values are indicated.

Supplementary Figure S2



Supplementary Figure S2: Ratio of Neutralizing antibody titers to RBD after single dose of BBV152 vaccination. (a) The ratio of GMT of FRNT50 of B.6 lineage ($n = 83$ independent values) or (b) the Delta variant to RBD ELISA was calculated in baseline and post-one dose vaccination with BBV152 ($n = 93$ independent samples). Two-tailed P values were estimated by Wilcoxon matched-pairs signed rank test.

SUPPLEMENTARY TABLE 1

REAGENTS OR RESOURCES	SOURCE	IDENTIFIER
Antibodies	Immunostaining	
SARS-CoV-2 / 2019-nCoV Spike / RBD Antibody, Rabbit PAb	Sino Biological	Cat. No. 40592-T62 Lot No. HD15SE2803
SARS CoV-2 Nucleocapsid Antibody (4h2), Mab, mouse	GenScript	Cat. No. A02048-1 Lot No. H2011012
Goat Anti-Rabbit IgG (H+L) Horseradish Peroxidase conjugate	Invitrogen	Cat. No. G-21234 Lot No. 2321833
Goat anti-Mouse IgG (H+L) Cross-Adsorbed Secondary Antibody, HRP	Invitrogen	Cat. No. A16072 Lot No. 66-113-110220
HRP-labelled Goat Anti- Human IgG Fcy specific	Jackson ImmunoResearch	Cat. No. 109-035-170 Lot No. 148542
Plasmids for recombinant protein expression		
Nucleocapsid protein of SARS-CoV-2	In-house purified	BEI resources: NR-53507
Receptor Binding domain (RBD) of SARS-CoV-2 Spike protein	In-house purified	BEI resources: NR-52422
Virus strains		
SARS-CoV-2 - B.6 lineage	Genbank accession: MW422884.1	
SARS-CoV-2 - B.1.1.617.2 (Delta variant)	Genbank accession: MZ356566.1	
SARS-CoV-2 - B.1.1.529 (Omicron variant - BA.1 sub-lineage)	GISAID-accession: EPI_ISL_6716890	
Media and chemicals		
Dulbecco's Modified Eagle Medium (DMEM), High glucose	HiMedia	Cat. No. AL007A
Expi293™ Expression Medium	Thermo Fisher/Gibco	Cat. No. A1435101
Expifectamine™ 293 Transfection kit	Thermo Fisher/Gibco	Cat. No. A14524
Penicillin-Streptomycin Antibiotic solution 100X liquid (PS)	HiMedia	Cat. No. A001
Minimum Essential Media (MEM)	Thermo Fisher/Gibco	Cat. No.11090073
Penicillin-Streptomycin-Glutamine (PSG) 100 X	Thermo Fisher/Gibco	Cat. No.10378016
Non-Essential Amino Acids Solution (100 X)	Thermo Fisher/Gibco	Cat. No.1140050

Fetal Bovine Serum (FBS)	Thermo Fisher/Gibco	Cat. No. 16140-071
Trypsin-EDTA (0.25%), phenol red	Thermo Fisher/Gibco	Cat. No. 25200072
1 M HEPES Buffer solution	Thermo Fisher/Gibco	Cat. No. 15630056
Sodium Bicarbonate Solution (7.5%)	Thermo Fisher/Gibco	Cat. No: 25080094
Carboxymethylcellulose (CMC) medium viscosity	Sigma	Cat. No. C4888
TrueBlue™ Peroxidase Substrate	Sera Care KPL	Cat. No: 5510-0050
1x Dulbecco's Phosphate Buffered Saline (DPBS)	Thermo Fisher/Gibco	Cat. No. 21600010
Hydrogen peroxide solution 30% w/v	Merck	Cat No. 216763
Formalin 37%	Merck	Cat. No. 1.94989.0521
Tween-20	Sigma	Cat. No. P-1379
Skimmed milk powder	Bio-Rad	Cat. No. 1706404
3,3', 5,5' tetramethylbenzidine (TMB)	BD Biosciences	Cat. No. 555214
Triton X-100	Sigma	Cat. No. T8787
Sodium Chloride (NaCl)	HiMedia	Cat. No. MB023-500 G
Potassium Chloride (KCl)	HiMedia	Cat. No. MB043-500 G
Sodium hydrogen phosphate (Na ₂ HPO ₄)	HiMedia	Cat No. MB126-500 G
Potassium dihydrogen phosphate (KH ₂ PO ₄)	Merck	Cat. No. 1.93605.0521
Vacutainer	BD Biosciences	Cat. No. 367954
Cell lines		
Vero E6	ECACC	Cat. No. 85020206
Calu-3 cells	ATCC	ATCC-HTB-55
Expi293F™ cells	Thermo Fisher/Gibco	Cat. No. A14527
Software and Algorithms		
Prism (9.3.1)	GraphPad	
SoftMax pro GXP 7.1	Molecular Devices	
AID EliSpot 8.0 iSpot software	AID	
Gen5 (3.10)	BioTek	
Microsoft Excel (v 16.16.27)	Microsoft (2016)	
Microsoft Word (v 16.16.27)	Microsoft (2016)	