

Epitope Group	No. of Group Members	Average No. of Epitope Residues (min, max)	Number Of Unique Epitope Residues Across Group	Min Residue Overlap Between Any Two Group Members	Max Residue Overlap Between Any Two Group Members	Average Residue Overlap Between Any Two Group Members	No. of Residues Present In The Epitope of All Group Members	No. of Residues Present In The Epitope of 90%+ of Group Members	No. of Residues Present In The Epitope of 50%+ of Group Members
Neck	23	31.9 (19, 38)	49	7	34	27.2	5	23	32
Left Shoulder	10	20.3 (13, 26)	69	1	19	7.9	0	1	16
Left Flank	5	25.4 (22, 28)	62	4	23	10.8	3	3	22
Right Flank	2	22.5 (21, 24)	39	6	6	6	6	6	39
Right Shoulder	6	21.8 (13, 27)	56	2	18	9.7	1	1	20
Shoulder	2	23.0 (21, 25)	29	17	17	17	17	17	17

S3 Table. SARS-CoV-2 binding antibodies epitope interactions. Analysis of structural epitope overlap between epitope group members. Epitope residues were defined as those within 4.5Å of the antibody in the crystal structure. Analysis was conducted using Arpeggio [1].

References

1. Jubb HC, Higuero AP, Ochoa-Montano B, Pitt WR, Ascher DB, et al. Arpeggio: a web server for calculating and visualising interatomic interactions in protein structures. *J Mol Biol.* 2017;429(3):365–371. doi:10.1016/j.jmb.2016.12.004.