

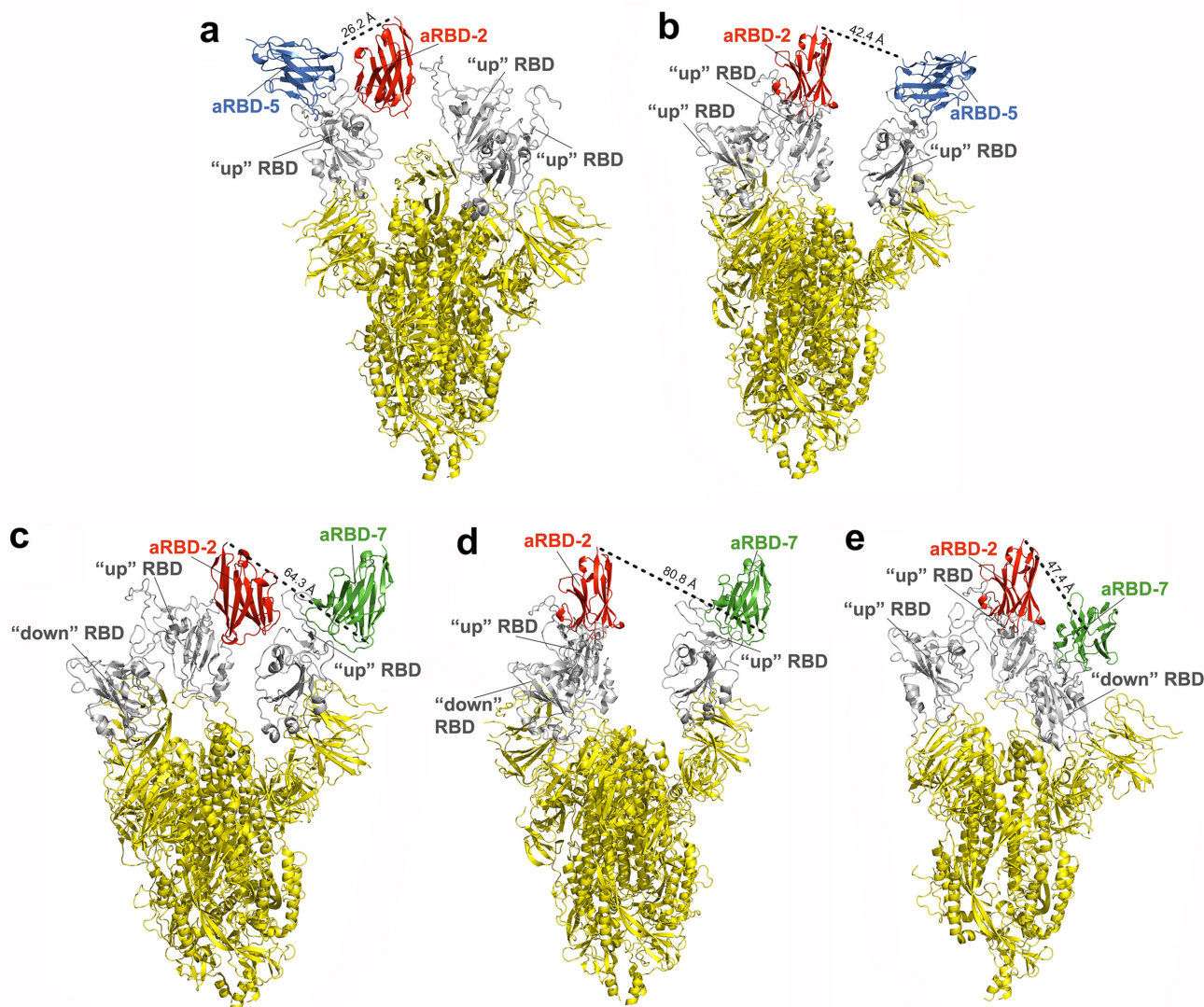


Fig. S3 The distance between the C-terminus of aRBD-2 and the N-terminus of aRBD-5 or aRBD-7 in different binding modes on the trimeric spike of SARS-CoV-2. The structures of aRBD-2 and aRBD-5 in complex with RBD were superimposed on the RBD in the cryo-EM structures of the trimeric spike with all RBD in “up” conformation (PDB: 7KMS), and the distance between the C-terminus of aRBD-2 and the N-terminus of aRBD-5 on one single RBD (a) or on two adjacent RBDs (b) was measured. The structures of aRBD-2 and aRBD-7 in complex with RBD were superimposed on the RBD in the cryo-EM structure of the trimeric spike with a two “up” and one “down” conformation (PDB: 7KMZ), and the distance between the C-terminus of aRBD-2 and the N-terminus of aRBD-7 on one single RBD (c), on two adjacent “up” RBDs (d), or on one “up” and one “down” RBDs (e) was measured.