

For Research Use Only

Virus spike protein Recombinant antibody, PBS Only



Catalog Number: 82734-4-PBS

Basic Information

Catalog Number: 82734-4-PBS	GenBank Accession Number: NC_045512	Purification Method: Protein A purification
Size: 100ug , Concentration: 1mg/ml by Nanodrop;	GeneID (NCBI): 43740568	CloneNo.: 4118
Source: Rabbit	Full Name: SARS-CoV-2 Spike Protein	
Isotype: IgG	Calculated MW: 141 kDa	
Immunogen Catalog Number: AG30684		

Applications

Tested Applications:
Indirect ELISA, WB

Species Specificity:
virus

Background Information

Coronaviruses (CoVs) infect human and animals and cause varieties of diseases, including respiratory, enteric, renal, and neurological diseases. CoV uses its spike protein to recognize ACE2 as its receptors and mediate membrane fusion and virus entry into host cells (PMID: 32221306). Each monomer of trimeric S protein is about 180 kDa, and contains two subunits, S1 and S2, S1 recognizes and binds to host receptors, and subsequent conformational changes in S2 facilitate fusion between the viral envelope and the host cell membrane (PMID: 19198616). Although the amino acid sequences of the S-glycoprotein were found to be different between the various HCoV, the structures showed high similarity, but the best 3D structural overlap shared by SARS-CoV and SARS-CoV-2, consistent with the shared ACE2 predicted receptor (PMID: 32522207). The spike protein of CoVs can be a target for vaccine and therapeutic development (PMID: 19198616). 28901-1-AP is specific for spike protein of SARS-COV-2, that antigen region is 428-506aa.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

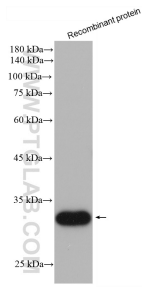
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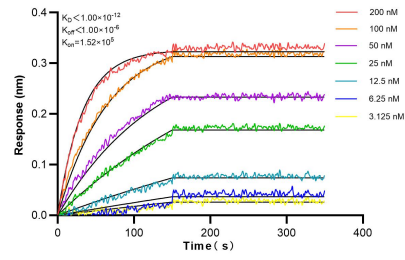
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Recombinant protein were subjected to SDS PAGE followed by western blot with 82734-4-RR (spike protein antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82734-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82734-4-RR against Virus spike protein were performed. The affinity constant is below 1 pM.