

For Research Use Only

# spike protein Recombinant antibody

Catalog Number: 82734-4-RR



## Basic Information

<b>Catalog Number:</b> 82734-4-RR	<b>GenBank Accession Number:</b> NC_045512	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 250 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 43740568	<b>CloneNo.:</b> 4I18
<b>Source:</b> Rabbit	<b>Full Name:</b> SARS-CoV-2 Spike Protein	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 141 kDa	
<b>Immunogen Catalog Number:</b> AG30684		

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Recombinant protein,
<b>Species Specificity:</b> 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

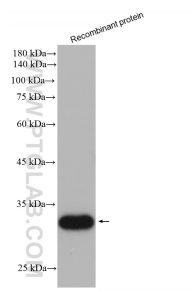
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

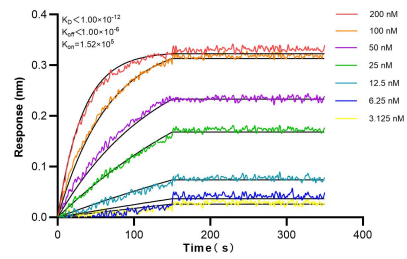
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
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## Selected Validation Data



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.



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