

For Research Use Only

SARS-CoV-2 S protein (944-1214 aa) Monoclonal antibody

Catalog Number: 67794-1-Ig



Basic Information

Catalog Number: 67794-1-Ig	GenBank Accession Number: NC_045512	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 43740568	CloneNo.: 1H5E6
Source: Mouse	Full Name: SARS-CoV-2 Spike Protein	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG1	Calculated MW: 141 kDa	
Immunogen Catalog Number: AG30682		

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: virus	WB : ag30682,

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).

Storage

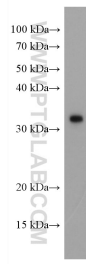
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

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

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Selected Validation Data



Spike Glycoprotein (944-1214 aa) were subjected to SDS PAGE followed by western blot with 67794-1-Ig (SARS-CoV-2 Spike Glycoprotein (944-1214 aa) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.