For Research Use Only

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

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Catalog Number:67794-1-Ig

Basic Information

Catalog Number:
67794-1-Ig

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG30682

GenBank Accession Number:
NC_045512

GeneID (NCBI):
43740568

Full Name:
SARS-CoV-2 Spike Protein

Calculated MW:
141 kDa

Purification Method:
Protein A purification

CloneNo.:
1H5E6

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB,ELISA

Species Specificity:
Virus

Positive Controls:

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

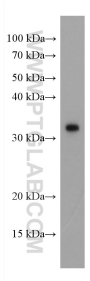
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.