For Research Use Only

SARS-CoV-2 S protein (RBD, 319-541 aa) Monoclonal antibody

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Purification Method:

CloneNo.:

1H3E9

Protein A purification

Recommended Dilutions:

WB 1:5000-1:50000

Catalog Number: 67758-1-lg 13 Publications

Basic Information

Catalog Number: GenBank Accession Number:

67758-1-lg NC_045512 GeneID (NCBI): 150ul , Concentration: 1000 ug/ml by 43740568

Nanodrop: Full Name:

SARS-CoV-2 Spike Protein

Mouse Calculated MW: Isotype: 141 kDa lgG1

Immunogen Catalog Number:

AG30688

Applications

Tested Applications:

WB, ELISA, Neutralization

Cited Applications:

Species Specificity:

Virus

Cited Species:

human, mouse

Positive Controls:

WB: Ag30688,

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).

Lyophilized format of this product is available.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|------------------|-------------|
| Shugang Qin | 36647424 | Acta Pharm Sin B | WB |
| Na Fan | 36563159 | Sci Adv | WB |
| Nian-Dong Mao | 39581172 | Bioorg Chem | WB |

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)

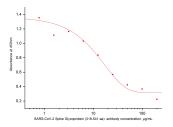
E: proteintech@ptglab.com W: ptglab.com

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

Selected Validation Data



Recombinant spike protein (RBD domain) were subjected to SDS PAGE followed by western blot with 67758-1-Ig (SARS-CoV-2 Spike Glycoprotein (319-541 aa) antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Surrogate virus neutralization test of SARS-CoV-2 Spike Glycoprotein (319-541 aa) monoclonal antibody 67758-1-lg using commercial kit. Briefly, RBD protein has been pre-coated on microplate, HRP labeled ACE2 protein and serial dose of 67758-1-lg are added to the plate simultaneously and incubated for 1 hour at 37°C. The plate was then washed and signal was developed by adding chromogenic substrate followed by stop buffer. Signal strength was monitored at