For Research Use Only

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



Purification Method:

Protein A purification

Recommended Dilutions:

WB 1:5000-1:50000

CloneNo.:

1H5E6

Catalog Number: 67794-1-Ig

Basic Information

Catalog Number: GenBank Accession Number:

67794-1-Ig NC_045512
Size: GeneI D (NCBI):
1000 μ g/ml 43740568
Source: Full Name:

Isotype: Calculated MW: IgG1 141 kDa

Immunogen Catalog Number:

AG30682

Mouse

Positive Controls:

WB: ag30682,

Applications

Tested Applications: WB,ELISA

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).

SARS-CoV-2 Spike Protein

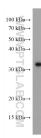
Storage

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

Selected Validation Data



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