

Virus SARS-CoV-2 S protein (944-1214 aa) Monoclonal antibody, PBS Only

Catalog Number: **67794-1-PBS**

Basic Information

Catalog Number: 67794-1-PBS	GenBank Accession Number: NC_045512	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 43740568	CloneNo.: 1H5E6
Source: Mouse	Full Name: SARS-CoV-2 Spike Protein	
Isotype: IgG1	Calculated MW: 141 kDa	
Immunogen Catalog Number: AG30682		

Applications

Tested Applications:
WB, Indirect ELISA
Species Specificity:
Virus

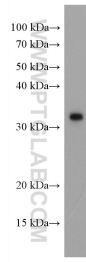
Background Information

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).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

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. This data was developed using the same antibody clone with 67794-1-PBS in a different storage buffer formulation.