

For Research Use Only

CoraLite® Plus 750-conjugated spike protein Recombinant antibody

Catalog Number:CL750-82734-4



Basic Information

Catalog Number: CL750-82734-4	GenBank Accession Number: NC_045512	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 43740568	CloneNo.: 4I18
Source: Rabbit	Full Name: SARS-CoV-2 Spike Protein	Excitation/Emission maxima wavelengths: 755 nm / 780 nm
Isotype: IgG	Calculated MW: 141 kDa	
Immunogen Catalog Number: AG30684		

Applications

Tested Applications:
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). 28901-1-AP is specific for spike protein of SARS-COV-2, that antigen region is 428-506aa.

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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Selected Validation Data