For Research Use Only

SARS-CoV-2 S protein (428-506 aa) Polyclonal antibody

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Catalog Number:28901-1-AP

Basic Information

Catalog Number:
28901-1-AP

Size:
630 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG30684

GenBank Accession Number:
NC_045512

GeneID (NCBI):
43740568

UNIPROT ID:
P0DTC2

Full Name:
SARS-CoV-2 Spike Protein

Calculated MW:
141 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:4000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
virus

Positive Controls:

WB : Recombinant protein,

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.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol 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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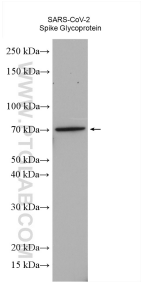
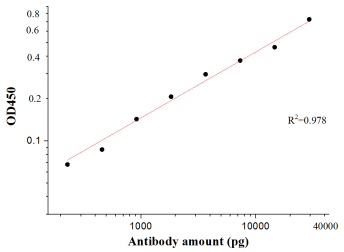
Selected Validation Data



Spike Glycoprotein with the domain 1-658aa expressed in HEK-293 cells were subjected to SDS PAGE followed by western blot with 28901-1-AP (SARS-CoV-2 Spike Glycoprotein (428-506 aa) Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



SARS-CoV-2 Spike Glycoprotein (428-506aa) Antibody (28901-1-AP) tested by ELISA.SARS-CoV-2 Spike protein was coated onto microtiter plates at 0.15 μg/well and then incubated with a dilution series of SARS-CoV-2 Spike Glycoprotein (428-506aa) Antibody (28901-1-AP). Bound antibodies were detected with HRP conjugated anti-Rabbit IgG followed by incubation with HRP Substrate and then measuring the resulting absorbance at 450 nm. .