For Research Use Only

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

Catalog Number:28867-1-AP 7 Publications

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Basic Information

Catalog Number:
28867-1-AP

Size:
375 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG30685

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

Applications

Tested Applications:
ELISA

Cited Applications:
WB, IF

Species Specificity:
virus

Cited Species:
human, monkey, hamster

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). This antibody detects the spike protein of SARS and SARS-COV-2.

Notable Publications

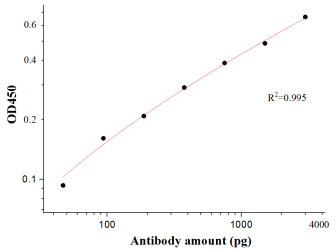
Author	Pubmed ID	Journal	Application
Matteo Stravalaci	35102342	Nat Immunol	IF
Takashi Okura	36014999	Pathogens	IF
Xiaojuan Zhou	33932326	Cell Rep	IF

Storage

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

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

Selected Validation Data



SARS-CoV-2 Spike Antibody (28867-1-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 Antibody (28867-1-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.