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SARS-CoV-2 Spike S1 Rabbit mAb

Catalog No.: A20834 Recombinant

Basic Information

Observed MW
110KDa

Calculated MW

Category
Primary antibody

Applications
WB,IF/ICC

Cross-Reactivity
SARS-CoV-2

CloneNo number
ARC51489

Background

The spike (S) glycoprotein of coronaviruses contains protrusions that will only bind to certain receptors on the host cell. The spike is essential for both host specificity and viral infectivity. The spike (S) glycoprotein of coronaviruses is known to be essential in the binding of the virus to the host cell at the advent of the infection process. It''s been reported that SARS-CoV-2 (COVID-19 coronavirus, 2019-nCoV) can infect the human respiratory epithelial cells through interaction with the human ACE2 receptor. S1 mainly contains a receptor binding domain (RBD), which is responsible for recognizing the cell surface receptor. The main functions for the Spike protein are summarized as: Mediate receptor binding and membrane fusion; Defines the range of the hosts and specificity of the virus; Main component to bind with the neutralizing antibody; Key target for vaccine design; Can be transmitted between different hosts through gene recombination or mutation of the receptor binding domain (RBD), leading to a higher mortality rate.

Recommended Dilutions

WB	1:50 - 1:200
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID
43740568

Swiss Prot
P0DTC2

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 200-300 of SARS-CoV-2 Spike S1 (YP_009724390.1).

Synonyms

Contact

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Product Information

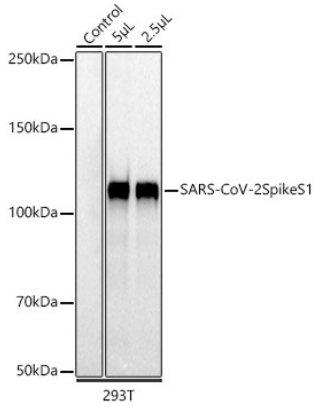
Source
Rabbit

Isotype
IgG

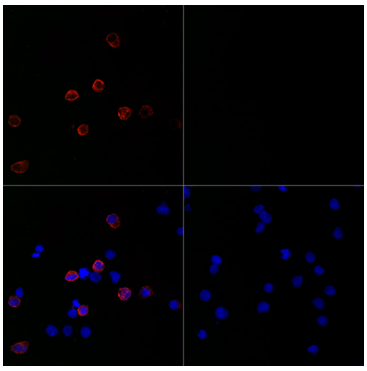
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Validation Data



Western blot analysis of 293T, using SARS-CoV-2SpikeS1 antibody (A20834) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 10s.



Immunofluorescence analysis of 293T cells transfected with S1 and untreated 293T cells using SARS-CoV-2 Spike S1 Rabbit mAb (A20834) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.