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HCoV-229E Spike S2 Rabbit mAb

Catalog No.: A22604 Recombinant

Basic Information

Observed MW
180kDa

Calculated MW
129kDa

Category
Primary antibody

Applications
ELISA,WB

Cross-Reactivity
HCoV-229E

CloneNo number
ARC57280

Background

S1 region attaches the virion to the cell membrane by interacting with host ANPEP/aminopeptidase N, initiating the infection. Binding to the receptor probably induces conformational changes in the S glycoprotein unmasking the fusion peptide of S2 region and activating membranes fusion. S2 region belongs to the class I viral fusion protein. Under the current model, the protein has at least 3 conformational states: pre-fusion native state, pre-hairpin intermediate state, and post-fusion hairpin state. During viral and target cell membrane fusion, the coiled coil regions (heptad repeats regions assume a trimer-of-hairpins structure, positioning the fusion peptide in close proximity to the C-terminal region of the ectodomain. The formation of this structure appears to drive apposition and subsequent fusion of viral and target cell membranes.

Recommended Dilutions

WB	1:10000 - 1:80000

Immunogen Information

Gene ID
918758

Swiss Prot
P15423

Immunogen
Recombinant protein of human HCoV-229E Spike S2.

Synonyms

Contact

400-999-6126

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Product Information

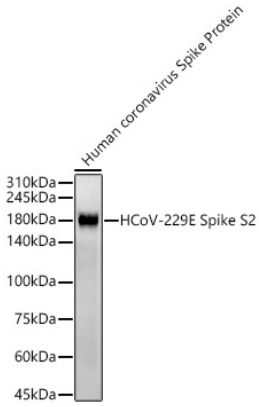
Source
Rabbit

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 Human coronavirus (HCoV-229E) Spike Protein (S1+S2 ECD His Tag), using HCoV-229E Spike S2 antibody (A22604) at 1:70000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Enhanced Kit (RM00021).
Exposure time: 180s.