A20393

Leader in Biomolecular Solutions for Life Science

HCoV-229E Spike S1 Rabbit pAb

Catalog No.: A20393

Basic Information

Observed MW
160kDa

Calculated MW
129kDa

Category
Polyclonal Antibody

Applications
WB,ELISA

Cross-Reactivity
HCoV-229E

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   1:500 - 1:1000

Immunogen Information

Gene ID
918758

Swiss Prot
P15423

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 100-200 of coronavirus Spike S1 (NP_073551.1).

Synonyms

Contact

🌐   www.abclonal.com

Product Information

Source
Rabbit

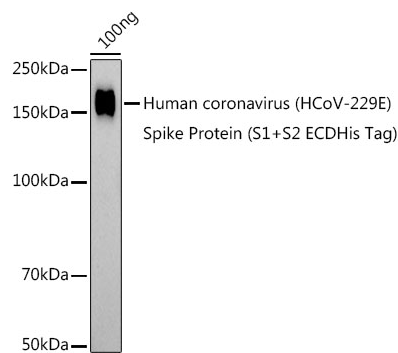**Isotype**
IgG

Purification
Affinity purification

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

Validation Data

Western blot analysis of lysates from Human coronavirus (HCoV-229E) Spike Protein (S1+S2 ECDHis Tag), using HCoV-229E Spike S1 Rabbit pAb (A20393) at 1:1000 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 Basic Kit (RM00020).
Exposure time: 180s.