Anti-HCoV-229E Spike S1 Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P104503

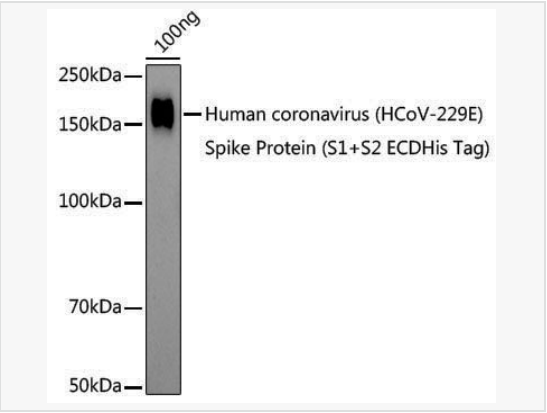
Product Information

Application	WB, ELISA
Reactivity	HCoV-229E
Dilution	WB 1:500~1:1,000
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1074-1173 of coronavirus Spike S1 (NP_073551.1).
Format	Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-HCoV-229E Spike S1 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	Spike protein S1; S1 protein; Spike glycoprotein Subunit 1; S glycoprotein Subunit 1; Spike S1.
Calculated MW	Calculated MW: 129 kDa; Observed MW: 160 kDa
Uniprot ID	P15423
Gene ID	918758
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.

Validation Images



Western blot analysis of lysates from Human coronavirus (HCoV-229E) Spike Protein (S1+S2 ECDHis Tag), using HCoV-229E Spike S1 Rabbit pAb (P104503) at 1:1,000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Kit.
Exposure time: 180s.