

Anti-HCoV-229E Spike S2 Rabbit pAb

Purified Rabbit Polyclonal Antibody

Catalog # P104365

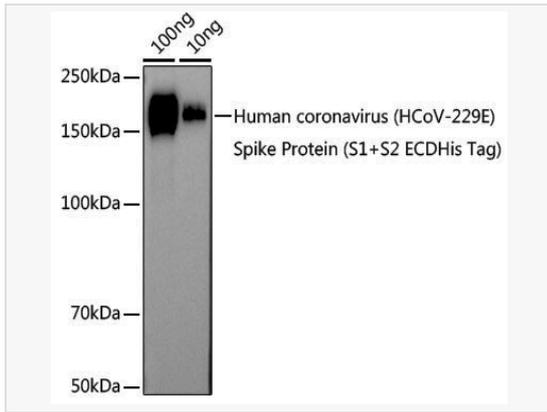
Product Information

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| 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 S2 (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 S2 Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|---------------|---|
| Synonyms | S2 protein; Spike glycoprotein Subunit 2; S glycoprotein Subunit 2; Spike protein S2; Spike S2. |
| 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 S2 Rabbit pAb (P104365) 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: 30s.