

A22627

Leader in Biomolecular Solutions for Life Science



# HCoV-NL63 Spike S2 Rabbit mAb

Catalog No.: A22627

Recombinant

## Basic Information

### Observed MW

160kDa/

### Calculated MW

150kDa

### Category

SMab Recombinant Monoclonal  
Antibody

### Applications

WB,ELISA

### Cross-Reactivity

Humancoronavirus(HCoV-  
NL63),WideRange

### CloneNo number

ARC57826

## Recommended Dilutions

**WB** 1:2000 - 1:20000

**ELISA** Recommended starting  
concentration is 1  
µg/mL. Please optimize  
the concentration  
based on your specific  
assay requirements.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

S1 region attaches the virion to the cell membrane by interacting with host ACE2, initiating the infection. Binding to the receptor probably induces conformational changes in the S glycoprotein unmasking the fusion peptide 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.

## Immunogen Information

### Gene ID

2943499

### Swiss Prot

Q6Q1S2

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

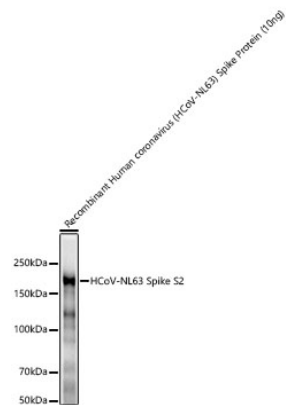
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

# Validation Data



Western blot analysis of recombinant Human coronavirus (HCoV-NL63) Spike Protein (S1+S2 ECD His Tag) using HCoV-NL63 Spike S2 Rabbit mAb (A22627) at 1:20000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 10ng per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 60s.