

# SARS-CoV-2 Spike RBD (N501Y) Rabbit mAb

Catalog No.: A21254 **Recombinant** **3 Publications**

## Basic Information

### Observed MW

36kDa (Recombinant Protein)

### Calculated MW

141KD

### Category

Primary antibody

### Applications

WB, ELISA

### Cross-Reactivity

SARS-CoV-2

### CloneNo number

ARC52673

## Background

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is an enveloped, positive-sense, single-stranded RNA virus that causes coronavirus disease 2019 (COVID-19). Virus particles include the RNA genetic material and structural proteins needed for invasion of host cells. Once inside the cell the infecting RNA is used to encode structural proteins that make up virus particles, nonstructural proteins that direct virus assembly, transcription, replication and host control and accessory proteins whose function has not been determined.~ The structural proteins of SARS-CoV-2 include the envelope protein (E), spike or surface glycoprotein (S), membrane protein (M) and the nucleocapsid protein (N). The spike glycoprotein is found on the outside of the virus particle and gives coronavirus viruses their crown-like appearance. This glycoprotein mediates attachment of the virus particle and entry into the host cell. S protein is an important target for vaccine development, antibody therapies and diagnostic antigen-based tests.

## Recommended Dilutions

**WB** 1:10000 - 1:40000

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

## Immunogen Information

### Gene ID

43740568

### Swiss Prot

P0DTC2

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

spike glycoprotein; SARS-CoV-2 Spike RBD (N501Y)

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

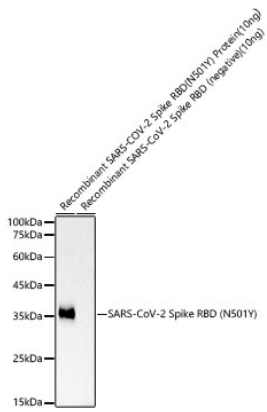
### Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Validation Data

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Western blot analysis of recombinant SARS-CoV-2 Spike RBD (N501Y) Protein (RP01258), using SARS-CoV-2 Spike RBD (N501Y) Rabbit mAb (A21254) at 1:10000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 100 ng per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 3s.