

A20260

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# SARS-CoV-2 ORF9b Rabbit pAb

Catalog No.: A20260

1 Publications

## Basic Information

### Observed MW

12-14kDa

### Calculated MW

11kDa

### Category

Polyclonal Antibody

### Applications

WB, ELISA

### Cross-Reactivity

SARS-CoV-2

## Background

SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) is the causative agent of the COVID19 pandemic. SARS-CoV-2 and SARS-CoV share many proteins common in other CoVs, including 4 major structural proteins (S, E, M, and N proteins) and 16 nonstructural proteins (nsp1-16), they possess a unique set of proteins, namely orf3a, 3b, 6, 7a, 7b, 8a, 8b, and 9b. The SARS-CoV-2 genome encodes for a small accessory protein termed Orf9b, which targets the mitochondrial outer membrane protein TOM70 in infected cells. This 98-amino acid (aa) protein is encoded by an alternative open reading frame (ORF) within the N gene and is translated via a leaky scanning mechanism during translation. Crystal structures of orf9b alone revealed a homodimeric  $\beta$ -strand-rich structure with a hydrophobic central tunnel for lipid binding, consistent with the role of orf9b in the mature virion assembly.

## Recommended Dilutions

**WB** 1:500 - 1:1000

**ELISA** Recommended starting concentration is 1  $\mu$ g/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**

**Swiss Prot**

P0DTD2

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-97 of coronavirus ORF9b (P0DTD2).

### Synonyms

## Contact



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

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

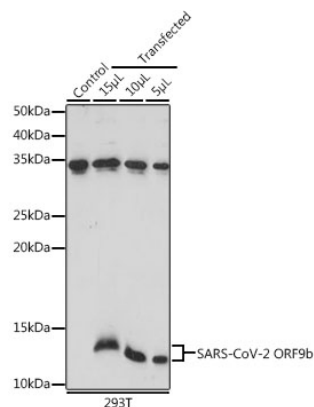
Affinity purification

### Storage

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

Buffer: PBS with 0.01% thimerosal, 50% glycerol, pH 7.3.

## Validation Data



Western blot analysis of extracts of normal 293T cells transfected with ORF9b Protein, using SARS-CoV-2 ORF9b Rabbit pAb (A20260) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated 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: 30s.