

SARS-CoV-2 ORF9b Rabbit pAb

Catalog No.: A20260 **1 Publications**

Basic Information

Observed MW

12-14kDa

Calculated MW

11kDa

Category

Primary antibody

Applications

ELISA, WB

Cross-Reactivity

Human

Background

SARS-CoV-2 (severe acute respiratory syndrome coronavirus 2) is the causative agent of the COVID-19 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 β -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

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

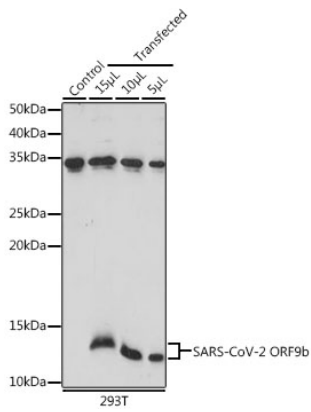
Affinity purification

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 293T transfected with ORF9b Protein, using SARS-CoV-2 ORF9b antibody (A20260) at 1:1000 dilution.

Secondary antibody: HRP 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.