

**SARS-CoV-2 (COVID-19) NSP15 Antibody**  
**Infectious Disease, COVID-19**  
**Catalog # ASC12215****Specification**

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**SARS-CoV-2 (COVID-19) NSP15 Antibody - Product Information**

Application	E, WB
Primary Accession	<a href="#">P0DTC1</a>
Other Accession	<a href="#">6VWW_B</a>
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	WB: 0.5-1 µg/mL Antibody validated: SARS-CoV-2 (COVID-19) NSP15 antibody can detect 2 ng of free peptide at 1 µg/mL in ELISA. It can detect SARS-CoV-2 NSP15 recombinant protein by ELISA and WB. All other applications and species not yet tested.

**SARS-CoV-2 (COVID-19) NSP15 Antibody - Additional Information**

Gene ID	43740578
<b>Other Names</b>	
Uridylate-specific endoribonuclease, NendoU, NSP15, Non-structure protein 15	

**Reconstitution & Storage**

SARS-CoV-2 (COVID-19) NSP15 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

SARS-CoV-2 (COVID-19) NSP15 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SARS-CoV-2 (COVID-19) NSP15 Antibody - Protein Information**

**Name** R1A

**Function**

[Replicase polyprotein 1a]: Multifunctional protein involved in the transcription and replication of viral RNAs. Contains the proteinases responsible for the cleavages of the polyprotein.

**Cellular Location**

[Host translation inhibitor nsp1]: Host cytoplasm [Papain-like protease nsp3]: Host endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Localizes in virally-induced cytoplasmic double-membrane vesicles (DMV) [3C-like proteinase nsp5]: Host cytoplasm. Host Golgi apparatus [Non-structural protein 7]: Host cytoplasm, host perinuclear region

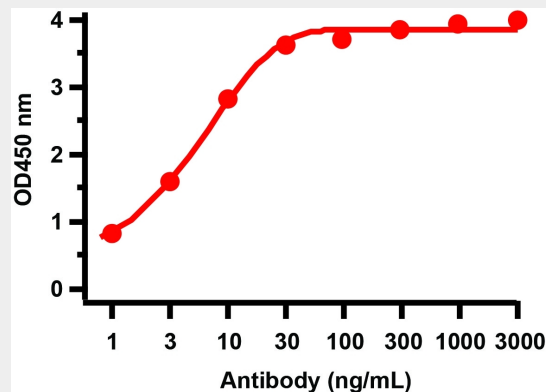
{ECO:0000250|UniProtKB:P0C6X9}. Host cytoplasm. Host endoplasmic reticulum. Note=nsp7, nsp8, nsp9 and nsp10 are localized in cytoplasmic foci, largely perinuclear. Late in infection, they merge into confluent complexes. {ECO:0000250|UniProtKB:P0C6X9} [RNA-capping enzyme subunit nsp9]: Host cytoplasm, host perinuclear region {ECO:0000250|UniProtKB:P0C6X9}. Host cytoplasm Host endoplasmic reticulum. Note=nsp7, nsp8, nsp9 and nsp10 are localized in cytoplasmic foci, largely perinuclear. Late in infection, they merge into confluent complexes {ECO:0000250|UniProtKB:P0C6X9}

## SARS-CoV-2 (COVID-19) NSP15 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

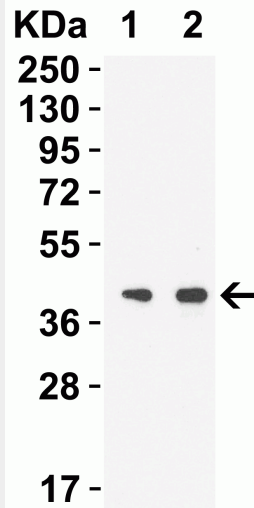
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## SARS-CoV-2 (COVID-19) NSP15 Antibody - Images



**Figure 1 ELISA Validation with SARS-CoV-2 (COVID-19) NSP15 Protein**

Antibodies: SARS-CoV-2 (COVID-19) NSP15 Antibody, 9269. A direct ELISA was performed using SARS-CoV-2 NSP15 recombinant protein (10-420) as coating antigen and the anti-SARS-CoV-2 (COVID-19) NSP15 antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 1 ng/mL to 3000 ng/mL



**Figure 2 Western Blot Validation with SARS-CoV-2 (COVID-19) NSP15 Protein**

Loading: 30 ng per lane of SARS-CoV-2 (COVID-19) NSP15 recombinant protein (10-420). Antibodies: SARS-CoV-2 (COVID-19) NSP15, 9269, 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 0.5 µg/mL and Lane 2: 1 µg/mL

#### **SARS-CoV-2 (COVID-19) NSP15 Antibody - Background**

Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease, is an infectious disease caused by SARS-CoV-2, a virus closely related to the SARS virus (1). The disease is the cause of the 2019–20 coronavirus outbreak (2). The structure of 2019-nCoV consists of the following: a spike protein (S), hemagglutinin-esterase dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleocapsid protein (N) and RNA. NSP15 is a Mn<sup>2+</sup>-dependent, uridylyte-specific enzyme, which leaves 2'-3'-cyclic phosphates 5' to the cleaved bond.

#### **SARS-CoV-2 (COVID-19) NSP15 Antibody - References**

Gorbalenya. bioRxiv: 2020.;Hui et al. Int J Infect Dis. 2020;91:264-266.;,,,,,,;