10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SARS-CoV-2 (COVID-19) NSP12 Antibody

Infectious Disease, COVID-19
Catalog # ASC12214

Specification

SARS-CoV-2 (COVID-19) NSP12 Antibody - Product Information

Application	**WB, E**
Primary Accession	P0DTC1
Other Accession	7B3D_A
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**WB: 1-2 µg/mL Antibody validated: SARS-CoV-2 (COVID-19) NSP12 antibody can detect 2 ng of free peptide at 1 µg/mL in ELISA. It can detect SARS-CoV-2 NSP12 recombinant protein by ELISA and WB. All other applications and species not yet tested.**

SARS-CoV-2 (COVID-19) NSP12 Antibody - Additional Information

Gene ID **43740578**

Other Names
RNA-directed RNA polymerase, Pol, RdRp, NSP12, Non-structure protein 12

Reconstitution & Storage
SARS-CoV-2 (COVID-19) NSP12 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) NSP12 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

SARS-CoV-2 (COVID-19) NSP12 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) NSP12 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 Cytomety
- Cell Culture

SARS-CoV-2 (COVID-19) NSP12 Antibody - Images

SARS-CoV-2 (COVID-19) NSP12 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-esterease dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleoclapid protein (N) and RNA.
NSP12 interacts with nsp7 and nsp8.

SARS-CoV-2 (COVID-19) NSP12 Antibody - References

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