

SARS-CoV-2 (COVID-19) NSP14 (ExoN) Antibody

Catalog # ASC12094

Product Information

Application	E
Other Accession	YP_009725309.1
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Clone Names	ExoN

Additional Information

Gene ID	43740578
Alias Symbol	ExoN
Other Names	Proofreading exoribonuclease, Guanine-N7 methyltransferase, Non-structural protein 14, NSP14.
Reconstitution & Storage	SARS-CoV-2 (COVID-19) NSP14 (ExoN) 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) NSP14 (ExoN) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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. NSP14 (ExoN) is an enzyme possessing two different activities: an exoribonuclease activity acting on both ssRNA and dsRNA in a 3' to 5' direction and a N7-guanine methyltransferase activity (3,4,5). It acts as a proofreading exoribonuclease for RNA replication, thereby lowering The sensitivity of the virus to RNA mutagens(6,7,8).

References

Gorbalenya. bioRxiv: 2020.Hui et al. Int J Infect Dis. 2020;91:264-266.Minskaia et. al. Proc. Natl. Acad. Sci. U.S.A 2006; 103:5108-5113Bouvet et. al. PLoS Pathog. 2010; 6:E1000863-E1000863Bouvet et. al. Proc. Natl. Acad. Sci. U.S.A. 2012;109:9372-9377Denison et. al. RNA Biol. 2011;8:270-279

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.