Rabbit COVID 19 NSP13 Coronavirus Polyclonal Antibody | anti-COVID-19 antibody

SARS-CoV-2 (COVID-19) NSP13 (Helicase) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40914	**Rabbit**	**Virus**	**Immunohistochemistry, ELISA**

PRODUCT SYNONYMS

COVID 19 NSP13 Coronavirus; Polyclonal Antibody; SARS-CoV-2 (COVID-19) NSP13 (Helicase) Antibody; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; NSP13; anti-COVID-19 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Virus
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	SARS-CoV-2 (COVID-19) NSP13 (Helicase) Antibody is affinity chromatography purified via peptide column
Form/Format	Liquid SARS-CoV-2 (COVID-19) NSP13 (Helicase) Antibody is supplied in PBS containing 0.02% sodium azide
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-COVID-19 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Anti-SARS-CoV-2 (COVID-19) NSP13 (Helicase) antibody was raised against a peptide corresponding to 19 amino acids near the carboxyl terminus of the SARS-CoV-2 (COVID-19) NSP13 (Helicase) protein. The immunogen is located in the last 50 amino acids of SARS-CoV-2 (COVID-19) NSP13 (Helicase).
Homology	Predicted reactivity based on immunogen sequence: SARS-CoV NSP13 (Helicase) protein: (80%)
Preparation and Storage	SARS-CoV-2 (COVID-19) NSP13 (Helicase) 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.

IMAGES

ELISA
ELISA Validation with SARS-CoV-2 (COVID-19) NSP13 (Helicase) ProteinAntibodies: SARS-CoV-2 (COVID-19) NSP13 (Helicase) Antibody, (AAA40914). A direct ELISA was performed using SARS-CoV-2 NSP13 recombinant protein (10-427) as coating antigen and the anti-SARS-CoV-2 (COVID-19) NSP13 (Helicase) 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.

IHC (Immunohiostchemistry)
Immunohistochemistry Validation of SARS-CoV-2 (COVID-19) NSP13 in COVID-19 Patient LungImmunohistochemical analysis of paraffin-embedded COVID-19 patient lung tissue using anti- SARS-CoV-2 (COVID-19) NSP13 antibody (AAA40914, 0.5 ug/mL). Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin. Strong signal of SARS-COV-2 NSP13 protein was observed in macrophage of COVID-19 patient lung, but not in non-COVID-19 patient lung.

ELISA
Figure 3 ELISA ValidationAntibodies: SARS-CoV-2 (COVID-19) NSP13 (Helicase) Antibody, (AAA40914). A direct ELISA was performed using immunogen peptide as coating antigen and the anti-SARS-CoV-2 (COVID-19) NSP13 (Helicase) antibody as the capture antibody. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:20000 dilution. Detection range is from 0.3 ng/mL to 1000 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for anti-COVID-19 antibody	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. NSP13 is a multi-functional protein with a zinc-binding domain in N-terminus displaying RNA and DNA duplex-unwinding activities with 5' to 3' polarity. Activity of Helicase is dependent on magnesium(3,4).
Product Categories/Family for anti-COVID-19 antibody	Infectious Disease; COVID-19
References	Gorbalenya. bioRxiv: 2020. Hui et al. Int J Infect Dis. 2020;91:264-266. Tanner et. al. J.Biol. Chem. 2003;278:39578-39582

NCBI AND UNIPROT INFORMATION

NCBI GI #	1802476816
NCBI Accession #	YP_009725308.1
NCBI GenBank Nucleotide #	YP_009725308.1
NCBI Official Full Name	helicase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/covid-19-nsp13-coronavirus-antibody-immunohistochemistry-elisa/40914