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Datasheet for ABIN6992306
anti-SARS-CoV-2 ORF7a antibody

Overview

Quantity:	0.1 mg
Target:	SARS-CoV-2 ORF7a
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SARS-CoV-2 ORF7a antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Anti-SARS-CoV-2 (COVID-19) ORF7a antibody was raised against a peptide corresponding to 15 amino acids near the central domain of SARS-CoV-2 (COVID-19) ORF7a protein. The immunogen is located within 40-90 amino acids of the SARS-CoV-2 (COVID-19) ORF7a protein.
Isotype:	IgG
Purification:	SARS-CoV-2 (COVID-19) ORF7a Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	SARS-CoV-2 ORF7a
Abstract:	SARS-CoV-2 ORF7a Products
Target Type:	Viral Protein
Background:	Coronavirus disease 2019 (COVID-19), formerly known as 2019-nCoV acute respiratory disease,

Target Details

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). SARS-CoV-2 virus proteins include structural proteins, non-structural proteins and accessory factors. The structure of SARS-CoV-2 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. SARS-CoV-2 non-structural protein is ORF1ab that consists of 16 proteins (nsp1-nsp16), while accessory factors include ORF3a, ORF3b, ORF6, ORF7a, ORF7b, ORF8, ORF9b, ORF7a and ORF7a. ORF7a plays a role as antagonist of host tetherin (BST2), disrupting its antiviral effect. It acts by binding to BST2 thereby interfering with its glycosylation. It may suppress small interfering RNA (siRNA) and may bind to host ITGAL, thereby playing a role in attachment or modulation of leukocytes (3).

Molecular Weight:	14kD kDa
Gene ID:	43740573
UniProt:	P0DTC7

Application Details

Application Notes:	IHC: 1 µg/mL Antibody validated: Immunohistochemistry in human samples. SARS-CoV-2 (COVID-19) ORF7a antibody can detect 2 ng of free peptide at 1 µg/mL in ELISA. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	SARS-CoV-2 (COVID-19) ORF7a antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, 4 °C
Storage Comment:	SARS-CoV-2 (COVID-19) ORF7a 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.