Datasheet for ABIN6992301

anti-SARS-CoV-2 ORF3a antibody (N-Term)

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Overview

Quantity:	0.1 mg
Target:	SARS-CoV-2 ORF3a
Binding Specificity:	N-Term
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SARS-CoV-2 ORF3a antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Anti-SARS-CoV-2 (COVID-19) ORF3a antibody was raised against a peptide corresponding to 15 amino acids near the amino-terminus of SARS-CoV-2 (COVID-19) ORF3a protein. The immunogen is located within the first 50 amino acids of the SARS-CoV-2 (COVID-19) ORF3a protein.
Isotype:	IgG
Purification:	SARS-CoV-2 (COVID-19) ORF3a Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	SARS-CoV-2 ORF3a
Abstract:	SARS-CoV-2 ORF3a Products

Target Details

Target Type:	Viral Protein
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). 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-esterease dimer (HE), a membrane glycoprotein (M), an envelope protein (E) a nucleoclapid 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, ORF9c and ORF10. ORF3a forms homotetrameric potassium sensitive ion channels (viroporin) and may modulate virus release. It up-regulates expression of fibrinogen subunits FGA, FGB and FGG in host lung epithelial cells. It induces apoptosis in cell culture and downregulates the type 1 interferon receptor by inducing serine phosphorylation within the IFN alpha-receptor subunit 1 (IFNAR1) degradation motif and increasing IFNAR1 ubiquitination (3).
Gene ID:	43740569
UniProt:	P0DTC3

Application Details

Application Notes:	IHC: 0.2 µ,g/mL Antibody validated: Immunohistochemistry in human samples. Antibody validated: SARS-CoV-2 (COVID-19) ORF3a antibody can detect 2 ng of free peptide at 1 µ,g/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) ORF3a 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

Handling

Storage Comment:	SARS-CoV-2 (COVID-19) ORF3a 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.