Datasheet for ABIN6990122

anti-SARS-CoV-2 Membrane Protein antibody (C-Term)

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Overview

Quantity:	0.1 mg
Target:	SARS-CoV-2 Membrane Protein (SARS-CoV-2 M)
Binding Specificity:	C-Term
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2), SARS Coronavirus (SARS-CoV)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SARS-CoV-2 Membrane Protein antibody is un-conjugated
Application:	ELISA, Western Blotting (WB)

Product Details

Immunogen:	Anti-SARS-CoV-2/SARS-CoV Matrix antibody was raised against a peptide corresponding to 15 amino acids near the carboxy-terminus of SARS-CoV Matrix protein. The immunogen is located within the last 50 amino acids of SARS-CoV Matrix.
Isotype:	IgG
Purification:	SARS-CoV-2/SARS-CoV Matrix Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	SARS-CoV-2 Membrane Protein (SARS-CoV-2 M)
Alternative Name:	SARS-CoV-2 Membrane Protein (SARS-CoV-2 M Products)
Target Type:	Viral Protein

Target Details

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. The disease is the cause of the 2019-20 coronavirus outbreak (1). SARS-CoV-2 is the seventh member of the enveloped, positive-stranded RNA viruses that are able to infect humans. The SARS-CoV-2 genome, like other coronaviruses, encodes for multiple structural and nonstructural proteins. The structural proteins include spike protein (S), envelope protein (E), membrane glycoprotein (M), nucleocapsid phosphoprotein (N), and the nonstructural proteins include open reading frame 1ab (ORF1ab), ORF3a, ORF6, ORF7a, ORF8, and ORF10 (2).The membrane (M) protein or matrix protein is the most abundant structural protein and defines the shape of the viral envelope (3). It is an integral membrane protein involved in the budding of the viral particles and interacts with S (Spike) protein. It involves in organization of the nucleoprotein inside, which includes many copies of the N (nucleocapsid) protein bound to the genomic RNA. The M protein holds dominant cellular immunogenicity and has been determined as a protective antigen in humoral responses, which suggests it would serve as a potential target in vaccine design (4).
Gene ID:	43740571

Application Details

Application Notes:	WB: 1 µ,g/mL. Antibody validated: SARS-CoV-2/SARS-CoV Matrix antibody can be used for the detection of SARS-CoV-2/SARS-CoV Matrix protein in ELISA. It will detect 5 ng of free peptide at 1 µ,g/mL.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	SARS-CoV-2/SARS-CoV Matrix 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/SARS-CoV Matrix 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.