Datasheet for ABIN7566446

Recombinant anti-SARS-CoV-2 Nucleocapsid antibody

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Overview

Quantity:	100 µg
Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Reactivity:	SARS Coronavirus-2 (SARS-CoV-2)
Host:	Human
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This SARS-CoV-2 Nucleocapsid antibody is un-conjugated
Application:	ELISA

Product Details

Purpose:	anti-SARS-CoV-2 N Protein, mAb (rec.) (Capsi-1) (preservative free)
Immunogen:	Recombinant SARS-CoV-2 nucleocapsid protein.
Clone:	Capsi-1
Isotype:	IgG1
Characteristics:	Recombinant Antibody. Recognizes and binds to recombinant SARS-CoV-2 N protein. Application: ELISA. Liquid, in PBS (pH 7.4). Coronaviruses (CoVs) are enveloped non-segmented positive-sense single-stranded RNA viruses and can infect respiratory, gastrointestinal, hepatic and central nervous system of human and many other wild animals. Recently, a new severe acute respiratory syndrome beta-coronavirus called SARS-CoV-2 (or 2019-nCoV) has emerged, which causes an epidemic of acute respiratory syndrome (called coronavirus human disease 2019 or COVID-19). SARS-CoV-2 shares 79.5 % sequence identity

Product Details

	with SARS-CoV and is 96.2 % identical at the genome level to the bat coronavirus BatCoV RaTG133, suggesting it had originated in bats. SARS-CoV-2 contains 4 structural proteins, including Envelope (E), Membrane (M), Nucleocapsid (N) and Spike (S), which is a transmembrane protein, composed of two subunits S1 and S2. The S1 subunit contains a receptor binding domain (RBD), which binds to the cell surface receptor Angiotensin-Converting Enzyme 2 (ACE2) present at the surface of epithelial cells, causing mainly infection of human respiratory cells. The N protein contains two domains, both of them bind the virus RNA genome via different mechanisms. Coronaviruses (CoVs) are enveloped non-segmented positive-sense single-stranded RNA viruses and can infect respiratory, gastrointestinal, hepatic and central nervous system of human and many other wild animals. Recently, a new severe acute respiratory syndrome beta-coronavirus called SARS-CoV-2 (or 2019-nCoV) has emerged, which causes an epidemic of acute respiratory syndrome (called coronavirus human disease 2019 or COVID-19). SARS-CoV-2 shares 79.5 % sequence identity with SARS-CoV and is 96.2 % identical at the genome level to the bat coronavirus BatCoV RaTG133, suggesting it had originated in bats. SARS-CoV-2 contains 4 structural proteins, including Envelope (E), Membrane (M), Nucleocapsid (N) and Spike (S), which is a transmembrane protein, composed of two subunits S1 and S2. The S1 subunit contains a receptor binding domain (RBD), which binds to the cell surface receptor Angiotensin-Converting Enzyme 2 (ACE2) present at the surface of epithelial cells, causing mainly infection of human respiratory cells. The N protein contains two domains, both of them bind the virus RNA genome via different mechanisms.
Purification:	Puified
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<1EU/mg (LAL method)

Target Details

Target:	SARS-CoV-2 Nucleocapsid (SARS-CoV-2 N)
Alternative Name:	SARS-CoV-2 N Protein (SARS-CoV-2 N Products)
Target Type:	Viral Protein

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Liquid, in PBS (pH 7.4).
Preservative:	Without preservative
Handling Advice:	Avoid freeze/thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	+4°C Stable for at least 1 year after receipt when stored at -20°C.

