Datasheet for ABIN7540581

anti-SARS-Coronavirus Nucleocapsid Protein (SARS-CoV N) antibody

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Overview

Quantity:	100 µg
Target:	SARS-Coronavirus Nucleocapsid Protein (SARS-CoV N)
Reactivity:	SARS Coronavirus (SARS-CoV)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Fluorescence Microscopy (FM), Immunohistochemistry (IHC)

Product Details

Purpose:	Sars Nucleocapsid Protein Antibody
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a purified recombinant protein corresponding to full length SARS Coronavirus Nucleocapsid protein.
Isotype:	IgG
Cross-Reactivity (Details):	Anti-SARS-CoV-1 (N) affinity purified antibody is directed against SARS Coronavirus Nucleocapsid (N) protein.
Purification:	The product was purified from monospecific antiserum by immunoaffinity chromatography over SARS CoV-2 (N) resin.
Sterility:	Sterile filtered

Target Details

Target:	SARS-Coronavirus Nucleocapsid Protein (SARS-CoV N)
Alternative Name:	SARS-CoV Nucleocapsid (SARS-CoV N Products)
Target Type:	Viral Protein
Background:	Rabbit anti-Sars Nucleocapsid Protein Antibody, rabbit anti-Sars-CoV Nucleocapsid (N) Protein Antibody, N antibody, N structural protein antibody, COVID19 antibody, Nucleocapsid protein antibody, Nucleoprotein antibody, SARS coronavirus N protein antibody, SARS CoV-2 antibody, SARSCoV2 antibody, Severe acute respiratory syndrome antibody, A50 Antibody, A50 SARS, COVID,The coronavirus nucleocapsid protein is the major structural component of virions that associates with genomic RNA to form a long, flexible, helical nucleocapsid. Sequence comparison of the N genes of five strains of the coronavirus mouse hepatitis virus suggests a three-domain structure for the nucleocapsid protein. Anti-SARS-CoV Nucleocapsid (N) Protein Antibody is useful for researchers interested in viral research.
Gene ID:	1489678, 30173007
UniProt:	P59595

Application Details

Application Notes:	ELISA_Dilution: 1:10,000 - 1:50,000 Immunohistochemistry_Dilution: User Optimized Flow_Cytometry_Dilution: User Optimized IF_Microscopy_Dilution: User Optimized Western_Blot_Dilution: 1:500 - 1:2,000
Comment:	Suggested Applications: Other Anti-SARS-CoV-1 purified antibody has been tested for use in ELISA, immunofluorescence, and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 46 kDa in size corresponding to SARS Nucleocapsid (N) protein by western blotting in the appropriate cell lysate or extract. This antibody can be useful in ELISA and lateral flow format to detect virus in extracts from nasal and throat swabs and saliva. IF can be been useful to determine the presence or absence of virus entering cells especially when anti-viral drugs are applied. IHC studies can be performed on biopsies, detecting the coronavirus in lung, liver, bile duct, and placenta tissue. And may have the ability to neutralize the virus and thereby protect cells from the uptake of live virus. This antibody may be useful in flow cytometry studies.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) 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:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	V'kovski, Gultom, Kelly, Steiner, Russeil, Mangeat, Cora, Pezoldt, Holwerda, Kratzel, Laloli, Wider, Portmann, Tran, Ebert, Stalder, Hartmann, Gardeux, Alpern, Deplancke, Thiel, Dijkman: " Disparate temperature-dependent virus-host dynamics for SARS-CoV-2 and SARS-CoV in the human respiratory epithelium." in: **PLoS biology**, Vol. 19, Issue 3, pp. e3001158, (2021) (PubMed). Liu, Hu, Wang, Ren, Zhao, Ji, Zhu, Feng, Gong, Ju, Zhu, Cai, Lan, Guo, Xie, Dong, Zhu, Na, Wu, Lan, Xie, Wang, Yuan, Zhang, Ding: "Functional and genetic analysis of viral receptor ACE2 orthologs reveals a broad potential host range of SARS-CoV-2." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 118, Issue 12, (2021) (PubMed). Zhao, Ni, Gao, Wang, Yang, Wei, Lv, Liang, Zhang, Xu, Xie, Wang, Yuan, Liang, Zhang, Lin: " Recapitulation of SARS-CoV-2 infection and cholangiocyte damage with human liver ductal organoids." in: **Protein & cell**, Vol. 11, Issue 10, pp. 771-775, (2020) (PubMed). Grant, Anderson, Williford, Alonzo, Glukhova, Boyle, Weigl, Nichols: "SARS-CoV-2 Coronavirus Nucleocapsid Antigen-Detecting Half-Strip Lateral Flow Assay Toward the Development of Point of Care Tests Using Commercially Available Reagents." in: **Analytical chemistry**, Vol. 92,

Issue 16, pp. 11305-11309, (2020) (PubMed).

