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Datasheet for 200-301-MS4

SARS-CoV-2 Nucleocapsid (N) Protein Antibody

Overview

Description:	Anti-SARS-CoV-2 Nucleocapsid (N) Protein (MOUSE) Monoclonal Antibody - 200-301-MS4
Item No.:	200-301-MS4
Size:	100 µg
Applications:	ELISA
Reactivity:	SARS-CoV-2
Host Species:	Mouse

Product Details

Background:	SARS-CoV-2 (Severe acute respiratory syndrome coronavirus 2) the virus that causes the disease COVID-19, is related to SARS-CoV, MERS-CoV, and other betacoronaviruses (HKU1, NL63, OC43 and 229E). SARS-CoV-2 is an enveloped positive strand RNA virus that consists of several structural proteins including spike (S) protein, envelope (E) protein, membrane (M) protein and nucleocapsid (N) protein; and other non-structural proteins (NSPs). 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 diagnostics and viral research.
Synonyms:	mouse anti-SARS CoV 2 Nucleocapsid Protein Antibody, N-protein antibody, SARS CoV2 antibody, 2019-nCoV, COVID-19, Severe acute respiratory syndrome antibody, Severe acute respiratory syndrome coronavirus 2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	7G9.C2
Format:	IgG1

Target Details

Gene Name:	N

Reactivity:	SARS-CoV-2
Immunogen Type:	Recombinant Protein
Immunogen:	This protein A purified antibody was produced by repeated immunizations with purified recombinant SARS-CoV-2 Nucleocapsid protein with C-terminal His-tag, derived from the transfected human HEK293 cells.
Purity/Specificity:	Anti-SARS-CoV-2 Nucleocapsid (N) Protein Antibody is directed against SARS Coronavirus 2 Nucleocapsid (N) protein. The product was purified from roller bottle culture by protein A chromatography. No reactivity was seen against SARS COV-2 S1 and SARS COV-2 whole spike protein. Cross reactivity with homologues from other sources has not been determined.
Relevant Links:	• NCBI - QHD43423 • NCBI - MN908947.3 • GeneID - 43740575 • UniProtKB - P0DTC9

Application Details

Tested Applications:	ELISA
Application Note:	Anti-SARS-CoV-2 Nucleocapsid (N) Protein Monoclonal Antibody has been tested for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 47 kDa in size corresponding to SARS-CoV-2 Nucleocapsid (N) protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

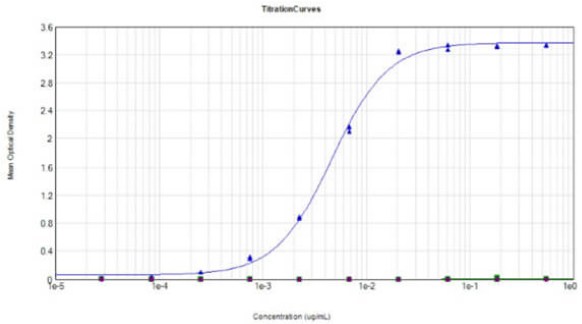
Physical State:	Liquid (sterile filtered)
Concentration:	1.18 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



ELISA
ELISA Results of Mouse Anti-SARS-CoV-2 Nucleocapsid (N) Protein Antibody. Each well was coated in duplicate with 0.5 µg of SARS CoV-2 (N) Protein [Blue Line]. SARS CoV-2 N EC50: 5ng/mL. SARS CoV-2 S1 and SARS CoV-2 whole spike show no signal. The starting dilution of antibody was 0.55µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Goat Anti-Rabbit IgG HRP conjugated (p/n 611-1302) at 1:8000 and TMB substrate (p/n TMBE-1000).

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