

Mouse anti-Viral SARS-CoV Nucleoprotein Monoclonal Antibody | anti-SARS-CoV antibody

Mouse anti SARS-CoV Nucleoprotein

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA50430	Mouse	Viral	Western Blot, ELISA

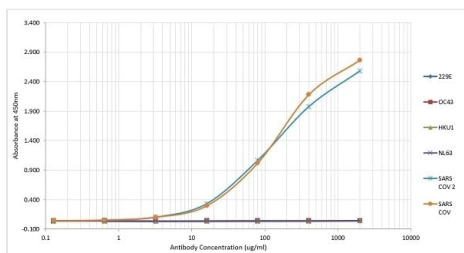
PRODUCT SYNONYMS

SARS-CoV Nucleoprotein; Monoclonal Antibody; Mouse anti SARS-CoV Nucleoprotein; SARS-CoV Nucleoprotein antibody | 3861; SARS-CoV NUCLEOPROTEIN; anti-SARS-CoV antibody

PRODUCT SPECIFICATIONS

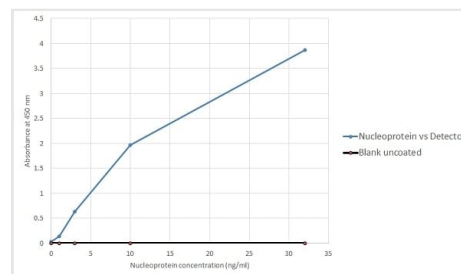
Host	Mouse
Reactivity	Viral
Clonality	Monoclonal
Isotype	IgG1
Clone Number	3861
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A
Form/Format	Phosphate buffered saline 0.09% Sodium Azide (NaN3) Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Applicable Applications for anti-SARS-CoV antibody	WB (Western Blot), ELISA
Immunogen	Recombinant fragment aa1-49 of the SARS nucleoprotein
Preparation and Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20 degree C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8 degree C for short term use (up to 4 weeks) and store the remaining aliquots at -20 degree C. Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

IMAGES



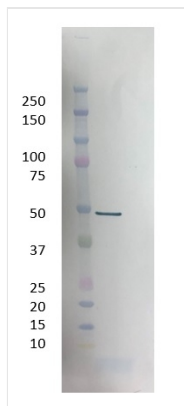
Application Data

Graph showing cross-reactivity data for the detection of SARS-CoV-2, SARS-CoV, 229E, OC43 and HKU1 with AAA50430 by ELISA



Application Data

Recombinant SARS-CoV-2 (COVID-19) nucleoprotein detected in sandwich ELISA using Mouse anti SARS-CoV nucleoprotein antibody (10ng/ml, AAA50430) as the capture antibody and a HRP-conjugated Mouse anti SARS-CoV nucleoprotein antibody as the detection antibody



WB (Western Blot)

Western blot analysis of SARS-CoV-2 Nucleoprotein probed with Mouse anti SARS-CoV nucleoprotein antibody (1/1000, AAA50430) and Goat anti Mouse secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SARS-CoV antibody

Mouse anti SARS-CoV nucleoprotein antibody recognizes nucleoprotein, also known as nucleocapsid protein and Protein N.

The nucleoprotein (N) is the most abundant viral protein in SARS-CoV-infected cells (Chang et al. 2014). It is one of the four structural proteins essential for viral assembly, alongside the spike (S), envelope (E), and membrane (M) proteins (Bartlam et al. 2005). The nucleoprotein encloses the viral genome; during assembly of the virion, nucleoprotein binds to viral RNA and forms the helical nucleocapsid (Zhu et al. 2004). It appears to be a multifunctional protein, and plays an important role in enhancing viral transcription and assembly (McBride et al. 2014). The N protein of a range of coronaviruses are abundantly expressed and are highly immunogenic, and high concentrations of anti-nucleoprotein IgG antibodies have been detected in patients with SARS. These properties have made the nucleoprotein of SARS-CoV-2 a target of interest for developing a vaccine against COVID-19 (Dutta et al. 2020).

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P59595
UniProt Protein Name	Nucleoprotein
UniProt Gene Name	N
UniProt Entry Name	NCAP_CVHSA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/sars-cov-nucleoprotein-antibody-clone-3861-western-blot-elisa/50430>