

Human COVID 19 Nucleocapsid (NP) Coronavirus Monoclonal Antibody | anti-Covid-19 antibody

Anti-Covid-19 & SARS-CoV Nucleoprotein [CR3018 (03-018)]

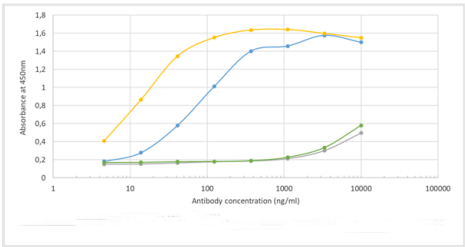
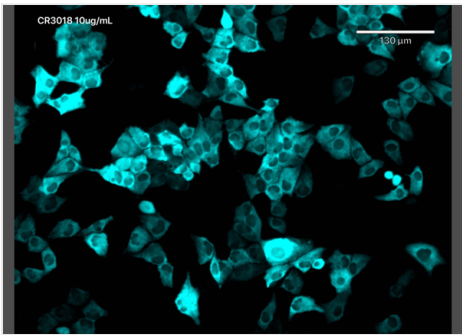
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA72196	Human	SARS-CoV, SARS-CoV2	Immunofluorescence, ELISA

PRODUCT SYNONYMS

COVID 19 Nucleocapsid (NP) Coronavirus; Monoclonal Antibody; Anti-Covid-19 & SARS-CoV Nucleoprotein [CR3018 (03-018)]; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; Nucleocapsid; Nucleoprotein (NP); NP; NC; Protein N; Nucleocapsid protein; SARS-CoV Protein N; SARS-CoV Nucleocapsid protein; SARS Coronavirus; SARS CoV 2; 2019-nCoV; anti-Covid-19 antibody

PRODUCT SPECIFICATIONS

Host	Human
Reactivity	SARS-CoV, SARS-CoV2
Clonality	Monoclonal
Isotype	Human IgM, kappa
Clone Number	CR3018 (03-018)
Specificity	This antibody binds the amino acid residues between 11-19 of the N protein of the SARS CoV as well as SARS-CoV-2 (COVID-19) nucleocapsid protein.
Purity/Purification	Purified antibody. Affinity Purified using a recombinant lectin column
Form/Format	PBS with 0.02% Proclin 300.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Covid-19 antibody	IF (Immunofluorescence), ELISA
Chimeric Use Statement	This reformatted human antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.
PMID	15650189
Preparation and Storage	Store at 4 degree C for up to 3 months. For longer storage, aliquot and store at -20 degree C.



ELISA
Binding curve of anti-SARS-Cov-2 (COVID-19) & SARS-CoV Nucleoprotein antibody CR3018 (03-018) to SARS-CoV-2 Nucleoproteins (REC31812 and REC31851). ELISA Plate coated with SARS-CoV-2 Nucleoproteins (REC31812/REC31851; Native Antigen Company) at a concentration of 5ug/ml. A 3-fold serial dilution from 10,000 ng/ml was performed using For detection, a 1:4000 dilution of HRP-labelled anti-rabbit antibody was used. Rabbit anti-Fluorescein [4-4-20 (enhanced)] antibody was used as a control.

IF (Immunofluorescence)
Immunofluorescence staining of MDCK-SIAT1 cells transfected with SARS-CoV-2 NP with anti-Covid-19 & SARS-CoV Nucleoprotein antibody CR3018 (03-018) (AAA72196)
Immunofluorescence analysis of MDCK-SIAT1 cells stably transfected with SARS-CoV-2 NP. The cells were seeded in a flat bottomed 96 well plate overnight, fixed in 10% formalin at 4C for 30min, permeabilised for 20min at RT and then stained with the human IgG1 version of CR3018 (03-018) in PBS/0.1% BSA at 10ug/ml for 1 hour followed by a goat anti-human Alexa Fluor 647 (Invitrogen) secondary antibody. The image is courtesy of Jack Tan, Radcliffe Department of Medicine, University of Oxford.

ADDITIONAL INFORMATION

Related Product Information for anti-Covid-19 antibody	Recombinant monoclonal antibody to Covid-19 & SARS-CoV Nucleoprotein. Recombinant Platform with variable regions (i.e. specificity) from the phage-display antibody CR3018 (03-018). The original antibody was generated by cloning the variable regions of the scFvs selected from phage display libraries into separate vectors for IgG1 heavy-chain and light-chain expression. The harvested supernatants were then purified on protein A columns. The original immunogen was the whole irradiated virion.
Product Categories/Family for anti-Covid-19 antibody	virus; virology; SARS; coronavirus
References	Van Den Brink et al. Molecular and Biological Characterization of Human Monoclonal Antibodies Binding to the Spike and Nucleocapsid Proteins of Severe Acute Respiratory Syndrome Coronavirus. Journal of Virology (2005); Vol-79 (3); p. 1635-1644. Note on publication: Describes the generation and characterization of the antibody.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P0DTC9; P59595
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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.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/covid-19-nucleocapsid-np-coronavirus-antibody-clone-cr3018-03-018-immunofluorescence-elisa/72196>