

## Product Datasheet

# Anti-Covid-19 & SARS-CoV Nucleoprotein [CR3018 (03-018)] (orb758988)

<b>Catalog Number</b>	orb758988
<b>Category</b>	Antibodies
<b>Description</b>	Human monoclonal antibody to Covid-19 & SARS-CoV Nucleoprotein
<b>Target</b>	Covid-19 & SARS-CoV Nucleoprotein
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Human
<b>Isotype</b>	IgA1
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Virus
<b>Concentration</b>	1 mg/ml
<b>Buffer/Preservatives</b>	PBS with 0.02% Proclin 300.
<b>Purity</b>	Purified
<b>Immunogen</b>	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.
<b>UniProt ID</b>	<b>P59595, P0DTC9</b>
<b>Tested applications</b>	ELISA, IF

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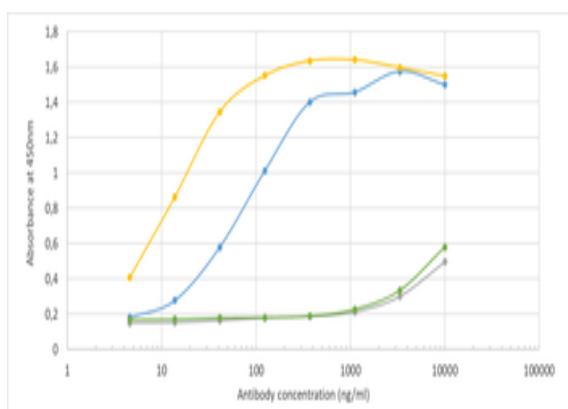
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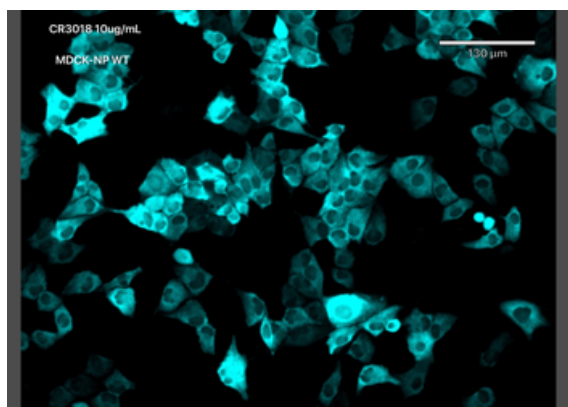
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<b>Specificity</b>	This antibody binds the amino acid residues between 11-19 of the N protein of the SARS CoV as well as SARS-CoV-2 (COVID-19) nucleocapsid protein.
<b>Clone Number</b>	CR3018 (03-018)
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.



Binding curve of anti-SARS-CoV-2 (COVID-19) & SARS-CoV Nucleoprotein antibody CR3018 (03-018) (orb669769) 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 5 µg/ml. A 3-fold serial dilution from 10000 ng/ml was performed using orb669769. For detection, a 1:4000 dilution of HRP-labelled anti-rabbit antibody was used. Rabbit anti-Fluorescein [4-4-20 (enhanced)] antibody (orb256390) was used as a control.



Immunofluorescence staining of MDCK-SIAT1 cells transfected with SARS-CoV-2 NP with anti-Covid-19 & SARS-CoV Nucleoprotein antibody CR3018 (03-018). 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 30 min, permeabilised for 20 min at RT and then stained with the human IgG1 version of CR3018 (03-018) (orb669768) in PBS/0.1% BSA at 10 µg/ml for 1 hour followed by a goat anti-human Alexa Fluor® 647 (Invitrogen) secondary antibody.

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