

## Product Datasheet

### Covid-19 & SARS-CoV Nucleoprotein antibody orb669768

<b>Description</b>	Mouse monoclonal antibody to Covid-19 & SARS-CoV Nucleoprotein
<b>Species/Host</b>	Human
<b>Reactivity</b>	Virus
<b>Conjugation</b>	Unconjugated
<b>Tested Applications</b>	ELISA, IF
<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>Target</b>	Covid-19 & SARS-CoV Nucleoprotein
<b>Concentration</b>	1 mg/ml
<b>Preservatives</b>	PBS with 0.02% Proclin 300.
<b>Storage</b>	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
<b>Note</b>	For research use only.
<b>Isotype</b>	IgG1
<b>Clonality</b>	Monoclonal
<b>Purity</b>	Purified
<b>Clone ID</b>	CR3018 (03-018)
<b>Uniprot ID</b>	<a href="#">P59595</a> , <a href="#">P0DTC9</a>
<b>Expiration Date</b>	12 months from date of receipt.
<b>Application Notes</b>	This antibody is recommended for detection of SARS CoV2 protein N (nucleoprotein). This antibody binds both the nucleocapsid protein of the SARS-CoV and SARS CoV-2 (2019-nCoV). Initial characterization of the antibody for binding to 2019-nCoV was done using ELISA. This antibody shows potential to be used for development of diagnostic assays. Various isotype versions of the antibody namely human IgG1, IgG3, IgM, IgA and the less common IgG2 and IgG4 are available for the investigation of their role in response to SARS CoV2. Competitive ELISA of this antibody with CR3009 suggests that both these antibodies bind different epitopes of the N protein of SARS CoV. Thus, a combination of these two antibodies is suggested for virus capture assays. Immunofluorescence staining was used to demonstrate binding of CR3018 to SARS-CoV infected Vero cells. (PMID:15650189)