

Product Datasheet

Covid-19 & SARS-CoV Nucleoprotein antibody orb669770

Description	Mouse monoclonal antibody to Covid-19 & SARS-CoV Nucleoprotein
Species/Host	Human
Reactivity	Virus
Conjugation	Unconjugated
Tested Applications	ELISA, IF
Immunogen	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 antigen was the whole irradiated virion.
Target	Covid-19 & SARS-CoV Nucleoprotein
Concentration	1 mg/ml
Preservatives	PBS with 0.02% Proclin 300.
Storage	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.
Note	For research use only.
Isotype	IgG1
Clonality	Monoclonal
Purity	Purified
Clone ID	CR3009 (03-009)
Uniprot ID	P59595 , P0DTC9
Expiration Date	12 months from date of receipt.
Application Notes	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 CR3018 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 CR3009 to SARS-CoV infected Vero cells. (PMID:15650189)