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### 10-10033: Monoclonal Antibody to SARS-CoV-2 Nucleocapsid (Clone: ABM3F2.1C1)

Clonality :	Monoclonal
Clone Name :	ABM3F2.1C1
Application :	ELISA,WB
Gene :	Ν
Gene ID :	43740575
Uniprot ID :	P0DTC9
Format :	Purified
Isotype :	Mouse IgG2b, Kappa
Immunogen Information	Full length recombinant SARS-CoV-2 nucleocapsid protein was used as the immunogen for this antibody.

#### Description

The structural nucleocapsid (N) protein of nCoV/SARS-CoV-2/COVID-19 is a predicted 46 kDa phosphoprotein having 419 amino acid residues. A short Serine rich stretch and a recognized nuclear localization signal are the unique features of the nucleocapsid protein of nCoV/SARS-CoV-2/COVID-19, which seems to have a little homology with the proteins of other members of this large corona virus family. These features also suggest the involvement of nucleocapsid protein of nCoV/SARS-CoV-2/COVID-19 in different stages of viral lifecycle. The protein has multifaceted activities including packing of the nCoV/SARS-CoV-2/COVID-19 viral genome into a helical ribonucleocapsid (RNP) and playing an important role in viral self-assembly causing nCoV/SARS-CoV-2/COVID-19. The nucleocapsid protein of nCoV/SARS-CoV-2/COVID-19 also forms dimer in the cell by self-association with the help of interactive C terminal domain.

#### **Product Info**

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 $\mu g$ in 50 $\mu l/100~\mu g$ in 200 $\mu l$ PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

#### **Application Note**

Recommended dilutions: WB: 0.1-1  $\mu$ g/ml, ELISA: 1  $\mu$ g/ml. However, this need to be optimized based on the research applications.

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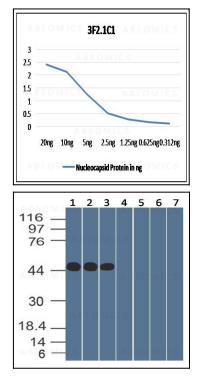


Figure-1: An indirect ELISA is carried out by coating nucleocapsid protein in serial dilution from 20 ng to 0.312 ng and using 100 ng of purified monoclonal antibodies 3F2.1C1. Peroxidase conjugated Goat-Anti mouse antibody was used at 1:5000 dilution.

Figure-2: Western Blot analysis: The purified antibodies 3F2.1C1 was tested on Nucleocapsid Recombinant protein at different concentrations, 0.1 (lane 1), 0.5 (lane 2), and 1.0  $\hat{1}/_4$ g/ml (lane 3), (4) RBD protein, (5) unrelated protein 1,(6) unrelated protein 2, (7) unrelated protein 3, to detect the specific binding. 25 ng of proteins was loaded per lane.