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10-10045: Monoclonal Antibody to SARS-CoV-2 nucleocapsid (Clone: ABM3A11.1B5)

Clonality: Monoclonal
Clone Name: ABM3A11.1B5

Application: WB **Gene**: N

 Gene ID :
 43740575

 Uniprot ID :
 P0DTC9

 Format :
 Purified

Isotype: Mouse IgG1, 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 : $25 \mu g / 100 \mu g$

Purification: Protein G Chromatography

Content: 25 μg in 50 μl/100 μg in 200 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium

azide is highly toxic.

Storage condition:

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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 µg/ml. However, this need to be optimized based on the research applications.

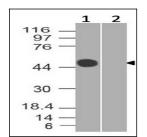


Figure-1: Western Blot analysis of SARS-CoV-2 Nucleocapsid Antibody: Anti- SARS-CoV-2 Nucleocapsid Antibody (Clone: ABM3A11.1B5) was used at 0.1 μg/ml on (1) Nucleocapsid Recombinant protein and at 1 μg/ml on (2) RBD Recombinant protein.