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10-10034: Monoclonal Antibody to SARS-CoV-2 Nucleocapsid (Clone: ABM3H4.1F7)

Clone Name : Monoclonal
Clone Name : ABM3H4.1F7
Application : ELISA,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:

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 μ g/ml, ELISA: 1 μ g/ml. However, this need to be optimized based on the research applications.



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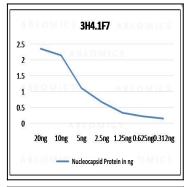


Figure-1: An indirect ELISA is carried out by coating nucleocapsid protein in serial dilution from 20 ng to 0.312 ng and using 100 ng of purified monoclonal antibodies 3H4.1F7. Peroxidase conjugated Goat-Anti mouse antibody was used at 1:5000 dilution.

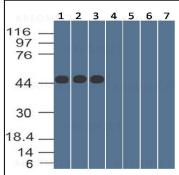


Figure-2: Western Blot analysis: The purified antibodies 3H4.1F7 was tested on Nucleocapsid Recombinant protein at different concentrations, 0.1 (lane 1), 0.5 (lane 2), and 1.0 μ g/ml (lane 3), (4) RBD protein, (5) unrelated protein 1 ,(6) unrelated protein 2, (7) unrelated protein 3, to detect the specific binding. 25 ng of proteins was loaded per lane.

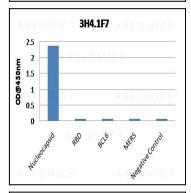


Figure-3: Anti-Nucleocapsid monoclonal Antibodies (3H4.1F7) was screened against different proteins to evaluate the specificity of the antibodies.

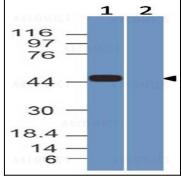


Figure-4: Western Blot analysis of SARS-CoV-2 Nucleocapsid Antibody: Anti- SARS-CoV-2 Nucleocapsid Antibody (Clone: ABM3H4.1F7)) was used at 4 μg/ml on (1) SARS-CoV-2 virus infected Vero Cell lysates and (2) Mock infected lysates.