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11-2004-B: Polyclonal Antibody to SARS-CoV-2 nucleocapsid Protein Biotin Conjugated

Clonality: Polyclonal
Application: ELISA,WB
Conjugate: Biotin
Format: Purified
Isotype: Rabbit IgG

Immunogen Information: SARS-CoV-2/COVID-19 Nucleocapsid (Ser2-Ala419) with His-tag in N-terminal 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 : 100 μg

Purification: Protein A Chromatography

Content: $25 \mu g$ in 50 μ l/100 μg in 200 μ l PBS containing 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: 1-2 μ g/ml. ELISA : 2 μ g/ml. However, this need to be optimized based on the research applications.

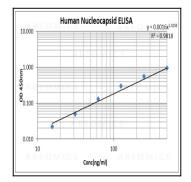


Figure 1: ELISA analysis of Nucleocapsid antibody (SARS-CoV-2) 11-2004Biotin was used as detection antibody.



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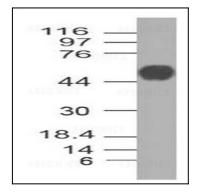


Figure-2: Western Blot analysis of Nucleocapsid antibody (SARS-CoV-2): Anti-Nucleocapsid antibody (SARS-CoV-2) cat no.11-2004B was used at 1 $\mu g/ml$ on recombinant Nucleocapsid Protein (Cat#21-1003).