

## 11-2004: Polyclonal Antibody to SARS-CoV-2 nucleocapsid Protein

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	ELISA, WB
<b>Format :</b>	Purified
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	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.

**“This product was developed using BIRAC financial assistance project reference no. BT/COVID0062/02/20”**

### Product Info

<b>Amount :</b>	25 µg / 100 µg
<b>Purification :</b>	Protein A Chromatography
<b>Content :</b>	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.
<b>Storage condition :</b>	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 µg/ml. However, this need to be optimized based on the research applications.

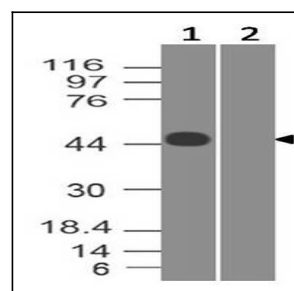


Figure-1: Western Blot analysis of SARS-CoV-2 Nucleocapsid Protein: Anti- SARS-CoV-2 Nucleocapsid Protein (11-2004) was used at 2 µg/ml on (1) SARS-CoV-2 virus infected Vero Cell lysate and (2) Mock infected lysate.

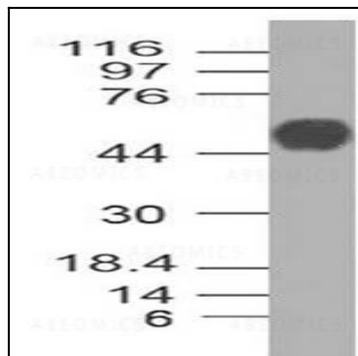


Figure-2: Western Blot analysis of Nucleocapsid antibody (SARS-CoV-2): Anti-Nucleocapsid antibody (SARS-CoV-2) was used at 1 µg/ml on recombinant Nucleocapsid Protein (Cat#21-1003).