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12-8456: Anti-SARS-CoV-2 Nucleocapsid (N) (Clone NP2-F6) HRP

Clonality: Monoclonal **Clone Name:** NP2-F6 Application: **ELISA**

Alternative Name: COV2-NP2-F6, SARS-CoV-2 Nucleocapsid, SARS-CoV-2 Nucleoprotein, Protein N, SARS-CoV N Protein

Isotype: Human IgG1

Description

Specificity: Anti-SARS-CoV-2 Nucleocapsid, clone NP2-F6, specifically targets an epitope on the SARS-CoV-2 nucleocapsid protein.

Antigen Distribution: The nucleocapsid protein is expressed in the internal nucleocapsid of SARS-CoV-2.

Background: Coronavirus disease 2019 (COVID-19) is caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). SARS-CoV-2 belongs to the Coronaviridae family, and its single-stranded, positive-sense RNA genome shares 79.6% identity with SARS-CoV1. The spike (S), envelope (E), membrane (M), and nucleocapsid proteins (N) are four essential structural proteins of SARS-CoV-22. The 46 kDa N protein is highly conserved and shares 90% homology with SARS-CoV3. Similar to SARS-CoV, SARS-CoV-2 has an N-terminal (NTD) and C-terminal domain (CTD), linked by a linker region. The NTD binds to RNA, while the CTD self-oligomerizes4,5, aiding viral genome packaging into a helical ribonucleoprotein complex6. The N protein also participates in viral transcription, replication, and modulation of cell signaling pathways 7,8. Some vaccine and diagnostic assays9 have focused on the N protein as it is highly expressed during infection and activates antibodies3,10 and memory T cells11,12, found in convalescent sera. The N-protein also evades the innate immune system by inhibiting RNAi13, identifying it as a potential therapeutic target.

Product Info

Amount: 50 μg

Concentration: 0.5 mg/ml

Formulation: This HRP-conjugated antibody is formulated in 0.01 M phosphate buffered saline Content:

(150 mM NaCl) PBS pH 7.2 - 7.4, 1% BSA. (Warning: Use of sodium azide as a preservative will

inhibit the enzyme activity of horseradish peroxidase)

This horseradish peroxidase conjugated monoclonal antibody is stable when stored at Storage condition:

2-8°C.?Do not freeze.

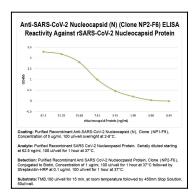


Figure 1