

Anti-CoV-2, MERS & SARS-CoV NP Mouse IgG1 Antibody

rev 03/20

CATALOG NO.: A2063-100 (100 µg)

BACKGROUND DESCRIPTION: SARS-CoV-2, MERS-CoV and SARS-CoV belong to the family of *Coronaviridae* and are characterized by large positive-sense RNA genome, that is about 28 - 30 kb in length. One unique feature of SARS-CoV-2, SARS-CoV and MERS-CoV is that two-thirds of the viral genome is translated into two large polyproteins whereas the remaining viral genome is transcribed into sub-genomic RNAs. The two large polyproteins encode multiple non-structural proteins that play an important role in viral replication and transcription. SARS-CoV-2, SARS-CoV and MERS-CoV transcribe multiple sub-genomic RNAs that encode four structural proteins, namely, envelope (E), membrane (M), spike (S), and nucleocapsid (N). Some of the main functions of the nucleocapsid protein are 1) to package the genomic of the virus into long and helical ribonucleoprotein (RNP) complexes, 2) to dimerize and associate with genomic RNA of the virus, as well as interact with other structural proteins of the virus, both of which functions are essential for viral assembly, 3) associate with ER-Golgi complex during virus budding, 4) assist in genomic RNA synthesis, 5) assist RNA chaperone proteins in proper folding of nucleic acids, and 6) play an important role in viral pathogenesis.

ANTIBODY TYPE: Monoclonal

HOST/ISOTYPE: Mouse / IgG1

PURITY: Affinity purified using protein A

IMMUNOGEN: Recombinant Coronavirus Nucleoprotein peptide

FORM: Liquid

SPECIFICITY: SARS-CoV-2, MERS and SARS Coronavirus Nucleoprotein (NP)

CROSS REACTIVITY: No reactivity with Coronavirus OC43, NL63 and 229E

FORMULATION: In 10 mM PBS, pH 7.2, 0.1% sodium azide

STORAGE CONDITIONS: Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing

APPLICATIONS AND USAGE: ELISA, IF

Note: This product is not for diagnostic purposes. It is the sole responsibility of the user to assume care, control and custody of the material, and ensure appropriate disposal, as per all regulations.

RELATED PRODUCTS:

Anti-nCOVID-19 Antibody (Clone# 6F10) (A2060)
 Anti-nCOVID-19 Antibody (A2061)

FOR RESEARCH USE ONLY! Not to be used on humans.