Anti-SARS-CoV-2 Antibody

02/20

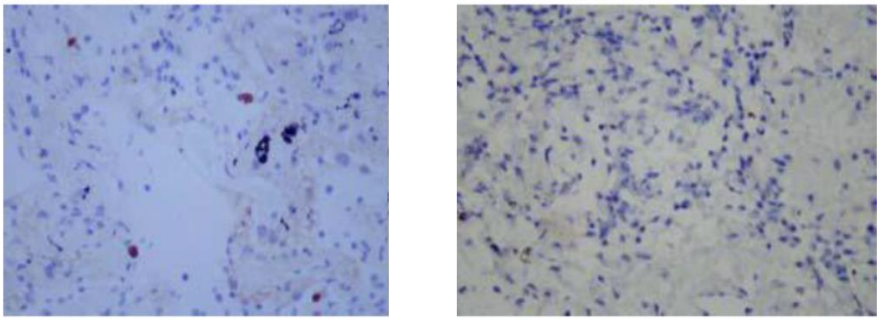
CATALOG NO.: **A2061-50 (50 µg)**

BACKGROUND DESCRIPTION: Coronaviruses (CoV) are a large group of enveloped positive-sense RNA viruses. They belong to subfamily *Coronavirinae*, in the family of *Coronaviridae*, of the order of *Nidovirales*. The Coronavirus genome is about 30 kb in length and encodes four structural proteins, namely, spike (S), envelope (E), membrane (M) and nucleocapsid (N), multiple non-structural proteins and other accessory proteins. Coronaviruses infect humans as well as a number of mammalian and avian species. Of the six Coronaviruses that infect humans, SARS-CoV and MERS-CoV cause severe respiratory disease in humans. SARS-CoV-2 is a novel strain of Coronavirus, deadlier than SARS and MERS-CoV and researchers are aiming to identify anti-viral targets and develop drugs and vaccines to inhibit replication of SARS-CoV-2.

ANTIBODY TYPE:	Polyclonal
HOST/ISOTYPE:	Rabbit / IgG
IMMUNOGEN:	Synthetic peptide targeting amino acids 1-100 of SARS-CoV-2 nucleoprotein
MOLECULAR WEIGHT:	50 kDa
PURIFICATION:	> 95% based on SDS-PAGE
FORM:	Frozen Liquid
FORMULATION:	In 0.01 M Tris-HCl, pH 8.0, 0.15 M NaCl, 0.02% sodium azide
STORAGE CONDITIONS:	Store at -20ºC; Store at -20℃. Product is stable for 6 weeks at 2 - 8℃ as undiluted liquid. Prepare fresh dilutions for every new experiment. Avoid freeze / thaw cycles
APPLICATIONS AND USAGE:	WB 0.5-2 µg/ml, Indirect ELISA 1-2 µg/ml, IHC 2-10 µg/ml

This information is only intended as a guide. The optimal dilutions must be determined by the user

A B



Immunohistochemistry analysis of patient lung biopsy samples infected with SARS-CoV-2 (A) and diagnosed with non-specific lung infection (B) using Anti-SARS-CoV-2 antibody. Antibody concentration used was 2-10 µg/ml and HRP-conjugated Goat Anti-Rabbit IgG was used as secondary antibody. Magnification (x400). Cells in Fig (A) stained dark brown confirm SARS-CoV-2 infection.

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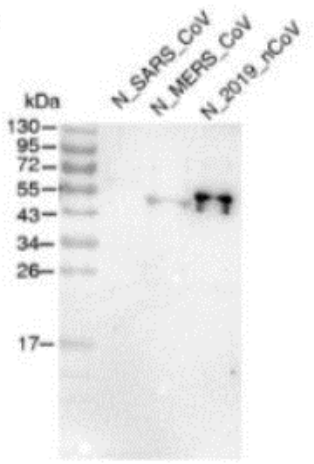

Western blot analysis of purified recombinant Nucleoproteins from SARS, MERS and SARS-CoV-2 using Anti-SARS-CoV-2 antibody. Primary antibody dilution used was 0.5-2 µg/ml.

RELATED PRODUCTS:

Anti-HIV/p24 Antibody (1D4) (A1020)
Anti-Flavivirus group antigen Antibody (A1146)
Anti-RSV (Felvizumab), Human IgG1 Antibody (A1446)
Anti-Flavivirus group antigen, Human IgG1 Antibody (A1102)

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

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