Monoclonal Anti-SARS Coronavirus/SARS-Related Coronavirus 2 Nucleocapsid Protein (produced in vitro)

Catalog No. NR-53792
Sino Biological Catalog No. 40143-MM05

For research use only. Not for use in humans.

Contributor and Manufacturer:
Sino Biological, Wayne, Pennsylvania, USA

Product Description:
Antibody Class: IgG1
Clone: 05
Mouse monoclonal antibody prepared against the severe acute respiratory syndrome coronavirus (SARS-CoV) nucleocapsid (N) protein was purified from a hybridoma supernatant by protein A affinity chromatography. The B cell hybridoma was generated by the fusion of mouse myeloma cells with splenocytes from mice immunized with purified recombinant SARS-CoV N protein (Sino Biological 40143-V08B; GenPept: NP_828858.1; amino acid residues M1 to A422).1

Material Provided:
Each vial of NR-53792 contains approximately 50 µL of purified monoclonal antibody in phosphate buffered saline (PBS). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-53792 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C to -80°C immediately upon arrival. NR-53792 can be stored at 2°C to 8°C for one month without detectable loss of activity. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-53792 is specific to the SARS-CoV N protein as shown in ELISA and western blot analysis (Figure 1), with cross reactivity to the N protein from SARS-CoV-2 (BEI Resources NR-53797; Sino Biological 40588-V08B). No cross reactivity was observed in ELISA with N proteins from MERS-CoV, HCoV-229E, HCoV-NL63, HCoV-HKU1 (isolate N5) or HCoV-OC43.1

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Anti-SARS Coronavirus/SARS-Related Coronavirus 2 Nucleocapsid Protein (produced in vitro), NR-53792.”

Biosafety Level: 1

Disclaimers:
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References:

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Figure 1: Representative Anti-SARS-CoV Western Blot

Lane 1: SARS-CoV N protein (30 ng)
Lane 2: SARS-CoV N protein (5 ng)
Lane 3: SARS-CoV-2 N protein (30 ng)
Lane 4: SARS-CoV-2 N protein (5 ng)