

# 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).<sup>1</sup>

## 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 is 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.<sup>1</sup>

## Citation:

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

## Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following

publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

## Disclaimers:

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## References:

1. Lu, Z., Personal Communication.

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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)