

**Monoclonal Anti-SARS-Related Coronavirus 2 Spike Glycoprotein S1 Domain (produced *in vitro*)**

**Catalog No. NR-53788**  
**Sino Biological Catalog No. 40150-R007**

**For research use only. Not for use in humans.**

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

**Product Description:**  
 Antibody Class: IgG  
 Recombinant rabbit monoclonal antibody prepared against the severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) spike glycoprotein S1 domain (Sino Biological 40150-V08B1) was expressed in human embryonic kidney HEK293 cells and purified by protein A affinity chromatography.<sup>1</sup>

**Material Provided:**  
 Each vial of NR-53788 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-53788 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-53788 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-53788 is specific to the SARS-CoV-2 spike S1 domain and spike receptor binding domain (RBD) and exhibits cross reactivity with the SARS-CoV Spike S1 domain and RBD as shown in ELISA. No cross reactivity in ELISA was observed with the Spike S1 domain from MERS-CoV, HCoV-HKU1, HCoV-NL63, HCoV-229E or the HCoV-OC43 Spike S1 + S2 ECD protein.<sup>1</sup> The biological activity of NR-53788 was measured by immunofluorescence staining (1:60) in ACE2-overexpressed 293T cells infected with 2019-nCoV-Spike pseudovirus (Figure 1).

**Citation:**  
 Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-SARS-Related Coronavirus 2 Spike Glycoprotein S1 Domain (produced *in vitro*), NR-53788.”

**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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**  
 1. Lu, Z., Personal Communication.

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Figure 1: Representative Immunofluorescence Analysis

