Product Information Sheet for NR-53788

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.[1]

Material Provided:
Each vial of NR-53788 contains approximately 50 µL of purified monoclonal antibody in phosphate buffered saline (PBS). The concentration, expressed as milligrams per milliliter, 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.[1] 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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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

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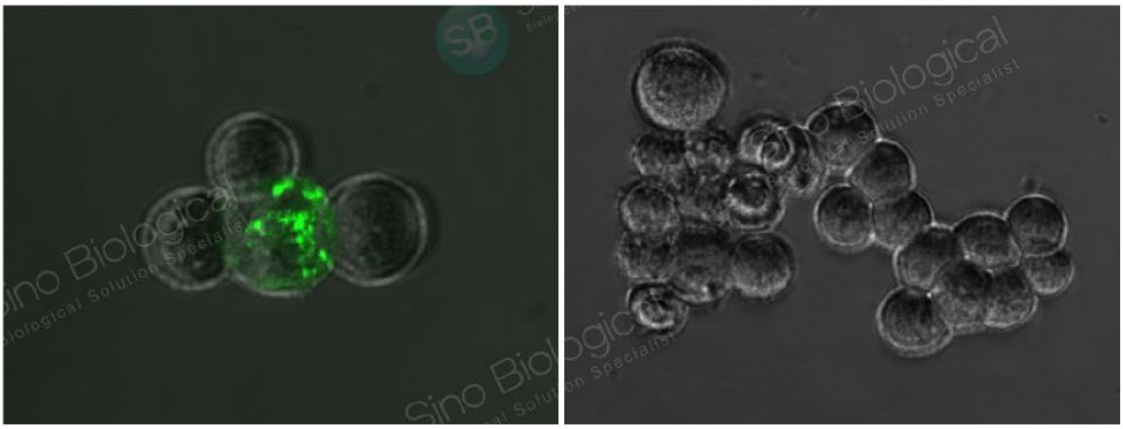
Figure 1: Representative Immunofluorescence Analysis



Infected Cells **Uninfected Cells**

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