

SUPPORTING INFECTIOUS DISEASE RESEARCH

Product Information Sheet for NR-56466

Monoclonal Anti-SARS-Related Coronavirus 2 Spike Glycoprotein Receptor Binding Domain (RBD), Omicron Cross-Reactive (produced *in vitro*)

Catalog No. NR-56466 Sino Biological Catalog No. 40592-MM117

For research use only. Not for use in humans.

Contributor and Manufacturer:

Sino Biological, Wayne, Pennsylvania, USA

Product Description:

Antibody Class: IgG1

Mouse monoclonal antibody prepared against the fusion protein containing the severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) spike (S) glycoprotein receptor binding domain (RBD) (R319 to F541; numbering according to GenPept: YP 009724390) and mouse IgG Fc (mFc) domain was purified from 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 recombinant SARS-CoV-2 spike RBD-mFc fusion protein (Sino Biological 40592-V05H).1

Material Provided:

Each vial of NR-56466 contains approximately 50 μg of purified monoclonal antibody in phosphate buffered saline (PBS). The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-56466 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-56466 can be stored at 2°C to 8°C for one month without detectable activity loss. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-56466 is specific to the SARS-CoV-2 Spike RBD-mFc recombinant protein (Sino Biological 40592-V05H) as shown in ELISA, with cross-reactivity to the SARS-CoV-2 Spike RBD protein (Omicron variant; Sino Biological 40592-V49H7-B), SARS-CoV-2 spike RBD protein (Delta variant; Sino Biological 40592-V49H1-B) and SARS-CoV-2 spike RBD protein [wildtype (WT), no variants; Sino Biological 40592-V08H, 40592-V27H-B]. NR-56466 is functional in *in vitro* neutralization assays with SARS-CoV-2 Spike Pseudovirus (WT; Sino Biological PSV001) and SARS-CoV-2 Spike Omicron (B.1.1.529) Pseudovirus (Sino Biological PSV016), but not with SARS-CoV-2 Delta (B.1.617.2) variant Spike Pseudovirus (Sino Biological PSV011).

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH:

Monoclonal Anti-SARS-Related Coronavirus 2 Spike Glycoprotein Receptor Binding Domain (RBD), Omicron Cross-Reactive (produced *in vitro*), NR-56466."

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 (BMBL). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

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References:

1. Lu, Z., Personal Communication.

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