Monoclonal Anti-SARS-Related Coronavirus 2 Spike Glycoprotein Receptor Binding Domain (RBD), Native Antigen, Clone 82.6.2 (produced *in vitro*)

Catalog No. NR-58918

For research use only. Not for use in humans.

Contributor and Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG1κ
Mouse monoclonal antibody against the severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) Wuhan-Hu-1 spike glycoprotein receptor binding domain (RBD) was purified from hybridoma clone 82.6.2 culture supernatant by protein G affinity chromatography (Figure 1). The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 mouse myeloma cells with splenocytes from BALB/c mice immunized with recombinant purified native RBD antigen and subsequent clonal selection. The recombinant antigen was produced *in vitro* by transfecting 293F cells with the RBD expression vector (BEI Resources NR-52309).

Material Provided:
Each vial of NR-58918 contains approximately 100 µg of purified monoclonal antibody in PBS. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:
NR-58918 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-58918 is specific to the SARS-CoV-2 RBD protein and shows cross-reactivity with SARS-CoV-2 spike-D614G, but not the SARS-CoV-1 spike protein (BEI Resources NR-623), or MERS-CoV spike protein (BEI Resources NR-53591). NR-58918 has a relatively high affinity to the SARS-CoV-2 RBD and SARS-CoV-2-spike-D614G proteins. Neutralization capabilities of this antibody were measured through c-Pass and pseudo-typed SARS-CoV-2 S lentiviral cell-based assays, which resulted in IC50 values of 10.1 ng/mL and 298.1 ng/mL, respectively.

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), Native Antigen, Clone 82.6.2 (produced *in vitro*), NR-58918."

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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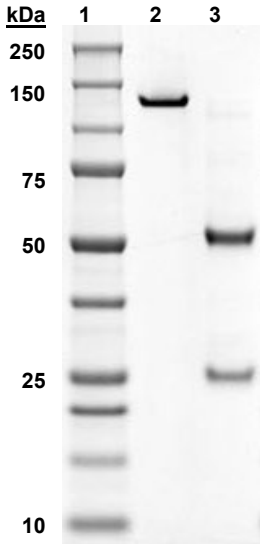
Figure 1: Representative SDS-PAGE



Lane 1: MW ladder
Lane 2: NR-58918 (Non-reducing)
Lane 2: NR-58918 (Reducing)

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