

## **Product Information Sheet for NR-58912**

Monoclonal Anti-SARS-Related Coronavirus 2 Spike Glycoprotein Receptor Binding Domain (RBD), Native Antigen, Clone 34.2.2 (produced *in vitro*)

Catalog No. NR-58912

For research use only. Not for use in humans.

## **Contributor and Manufacturer:**

**BEI Resources** 

### **Product Description:**

Antibody Class: IgG1k

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 34.2.2 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-58912 contains approximately 100 μL of purified monoclonal antibody in PBS. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

## Packaging/Storage:

NR-58912 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-58912 is specific to the SARS-CoV-2 RBD protein and shows cross-reactivity with SARS-CoV-2 spike-D 614G but not the SARS-CoV-1 spike protein (BEI Resources NR-623) or MERS-CoV spike protein (BEI Resources NR-53591). NR-58912 has a relatively low affinity to the SARS-CoV-2 RBD and SARS-CoV-2-Spike-D614G proteins. Neutralization capabilities of this antibody was measured through a pseudotyped SARS-CoV-2 S lentiviral particle-based assay, which resulted in IC50 values of 914.3 ng/mL.

#### 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 34.2.2 (produced *in vitro*), NR-58912."

## 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:**

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at <a href="https://www.beiresources.org">www.beiresources.org</a>.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

#### **Use Restrictions:**

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

ATCC<sup>®</sup> is a trademark of the American Type Culture Collection.

BEI Resources
www.beiresources.org

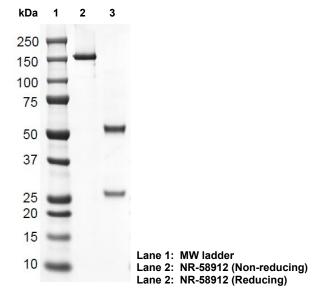
E-mail: contact@beiresources.org Tel: 800-359-7370

Fax: 703-365-2898



# **Product Information Sheet for NR-58912**

Figure 1: Representative SDS-PAGE



E-mail: contact@beiresources.org
Tel: 800-359-7370

Fax: 703-365-2898