Monoclonal Anti-SARS-CoV S Protein (Similar to 341C)

Catalog No. NR-617

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Contributor:

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Product Description:

Antibody Class: IgG2a

Mouse monoclonal antibody to the spike (S) glycoprotein of the Urbani strain of SARS-CoV was purified by protein A agarose affinity chromatography from a mouse B cell hybridoma. The mouse B cell hybridoma was generated by the fusion of SP2/0 myeloma cells with immunized BALB/c splenocytes.

Material Provided:

Purified monoclonal antibody is provided frozen at 0.5 mg per vial in phosphate buffered saline (pH 7.4) containing 0.05% Proclin300. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-617 was packaged aseptically in glass serum vials. Purified antibody should be stored at -20°C or colder immediately upon arrival. Repeated freeze-thaw cycles should be avoided. Purified antibody may be stored at 2 to 8°C for up to one month.

Functional Activity:[1,2]

NR-617 was purified from the same hybridoma as Subclone 341C.[2] The specificity of the antibody was determined by reactivity to a truncated form of SARS-CoV S protein (amino acids 1–1190, S_{1190}) by ELISA and confirmed by Western blot analysis using non-denatured S_{1190}, by radioimmunoprecipitation and by Indirect fluorescent Antibody staining of transfected Vero cells expressing SARS-CoV S protein. The reactivity pattern using S protein fragments indicates that this antibody recognizes an epitope within amino acids 490–510. In neutralization studies, this monoclonal antibody neutralized SARS-CoV infection of Vero E6 cells.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Monoclonal Anti-SARS-CoV S Protein (Similar to 341C), NR-617."

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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm.

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References:

1. Lia M. Haynes, Ph.D. and Larry J. Anderson, M.D., Respiratory and Enteric Virus Branch, Division of Viral and Rickettsial Diseases, National Center for Infectious Disease, Centers for Disease Control and Prevention, Atlanta, Georgia, personal communication.
2. Tripp, R. A., et al. "Monoclonal Antibodies to SARS-associated Coronavirus (SARS-CoV): Identification of Neutralizing and Antibodies Reactive to S, N, M and E Viral Proteins." J. Virol. Methods 128 (2005): 21–28. PubMed: 15885812. NR-617 was purified from the same hybridoma as Subclone 341C.

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