Monoclonal Anti-SARS-CoV S Protein
(Similar to 154C)

Catalog No. NR-620
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For research use only. Not for human use.

Contributor:
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Product Description:
Antibody Class: IgM
Mouse monoclonal antibody to the spike (S) glycoprotein of the Urbani strain of SARS-CoV was purified by ammonium sulfate precipitation 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-620 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:
NR-620 was purified from the same hybridoma as Subclone 154C. The specificity of the antibody was determined by reactivity to a truncated form of SARS-CoV S protein (amino acids 1–1190, S1190) by ELISA and confirmed by Western blot analysis using non-denatured S1190, by immunoprecipitation 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 270–350. In neutralization studies, this antibody did not neutralize 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 154C), NR-620.”

Biosafety Level: 1

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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.

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