

Monoclonal Anti-Zaire Ebola Virus Envelope Glycoprotein, Clone 3C4G3 (produced *in vitro*)

Catalog No. NR-49269

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Contributor and Manufacturer:

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Product Description:

Antibody Class: IgG2bk
 Mouse monoclonal antibody prepared against the envelope glycoprotein (GP) of Zaire ebolavirus (EBOV) was purified from clone 3C4G3 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of mouse myeloma cells with splenocytes from mice that had been immunized intraperitoneally with purified recombinant ZEBOVGP-Fc, which consists of the extracellular domain of the Zaire EBOV GP fused to the human IgG1 Fc fragment.¹

Material Provided:

Each vial of NR-49269 contains approximately 100 µL of purified monoclonal antibody in PBS, pH 7.2. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-49269 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-49269 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-49269 is reported to be specific for the mucin region of the Zaire ebolavirus envelope glycoprotein and to function in immunocytochemistry, immunohistochemistry, immunoprecipitation and western blot assays.²

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Zaire Ebola Virus Envelope Glycoprotein, Clone 3C4G3 (produced *in vitro*), NR-49269.”

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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers:

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References:

1. Konduru, K., et al., “Ebola Virus Glycoprotein Fc Fusion Protein Confers Protection Against Lethal Challenge in Vaccinated Mice.” Vaccine 29 (2011): 2968-2977. PubMed: 21329775.
2. Kaplan, G., Personal Communication.

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