

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

Catalog No. NR-32978

For research use only. Not for human use.

Contributor and Manufacturer:

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Product Description:

Antibody Class: IgG2bk
Mouse monoclonal antibody prepared against the envelope glycoprotein (GP) of ebolavirus (EBOV) was purified from clone 3C4G3 hybridoma supernatant by protein A 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-32978 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-32978 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-32978 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-32978 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 Ebolavirus Envelope Glycoprotein, Clone 3C4G3 (produced *in vitro*), NR-32978."

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/bmb15/index.htm.

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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. G. Kaplan, personal communication.

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