

**Monoclonal Anti-Zaire Ebola Virus Envelope Glycoprotein, Clone 7B5D1 (produced *in vitro*)**

**Catalog No. NR-49268**

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**For research use only. Not for human use.**

**Contributor and Manufacturer:**

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**Product Description:**

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against the envelope glycoprotein (GP) of Zaire ebolavirus (EBOV) was purified from clone 7B5D1 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.<sup>1</sup>

**Material Provided:**

Each vial of NR-49268 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-49268 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-49268 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-49268 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.<sup>2</sup>

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Zaire Ebola Virus Envelope Glycoprotein, Clone 7B5D1 (produced *in vitro*), NR-49268."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/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. Kaplan, G., Personal Communication.

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