

Monoclonal Anti-Sudan Ebolavirus Envelope Glycoprotein, Clone 6D11 (produced *in vitro*)

Catalog No. NR-12208

For research use only. Not for human use.

Contributor:

Barton Haynes, M.D., Professor of Medicine and Immunology and Director, Duke Human Vaccine Institute, Duke University School of Medicine, Durham, North Carolina, USA

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against the envelope glycoprotein (GP) of Sudan ebolavirus (EBOV) was purified from clone 6D11 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63-Ag8 BALB/c mouse myeloma cells with splenocytes from female BALB/c mice that had been immunized intramuscularly with VRC6204 plasmid and boosted with purified recombinant GP of the Sudan EBOV Gulu strain.¹ VRC6204 consists of a synthetic human codon-optimized gene expressing the transmembrane-deleted GP of the Sudan EBOV Gulu strain.²

Note: The P3X63-Ag8 myeloma cell line secretes the MOPC21 myeloma protein, a mouse IgG1k antibody of unknown specificity. Thus, NR-12208 may contain both MOPC21 protein and EBOV GP-specific antibody of the IgG1k isotype, as well as inactive hybrid immunoglobulin molecules.

Material Provided:

Each vial of NR-12208 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-12208 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-12208 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-12208 is reported to recognize Sudan EBOV GP in western blot assays and not to cross-react with other known EBOV species.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Sudan Ebolavirus Envelope Glycoprotein, Clone 6D11 (produced *in vitro*), NR-12208."

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.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Yu, J. S., et al., "Detection of Ebola Virus Envelope Using Monoclonal and Polyclonal Antibodies in ELISA, Surface Plasmon Resonance and a Quartz Crystal

- Microbalance Immunosensor." J. Virol. Methods. 137 (2006): 219-228. PubMed: 16857271.
2. Sheets, R. L., et al., "Biodistribution of DNA Plasmid Vaccines Against HIV-1, Ebola, Severe Acute Respiratory Syndrome or West Nile Virus is Similar, Without Integration, Despite Differing Plasmid Backbones or Gene Inserts." Toxicol. Sci. 91 (2006): 610-619. PubMed: 16569729.

ATCC® is a trademark of the American Type Culture Collection.

