

Product Information Sheet for NR-51510

Monoclonal Anti-Arenavirus (OW) rGPC, Clone KL-AV-1B3 (produced *in vitro*)

Catalog No. NR-51510

For research use only. Not for use in humans.

Contributor:

Florian Krammer, Professor, Department of Microbiology, Icahn School of Medicine at Mount Sinai, New York, New York, USA

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2ak

Mouse monoclonal antibody prepared against the Lassa virus (LASV) recombinant glycoprotein complex (rGPC) was purified from clone KL-AV-1B3 hybridoma supernatant using protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 mouse myeloma cells with splenocytes from BALB/c mice immunized with DNA vaccines encoding ectodomain of glycoprotein from LASV GPC three times followed by a final LASV GPC recombinant protein boost.^{1,2}

Material Provided:

Each vial of NR-51510 contains approximately 100 μL of purified monoclonal antibody in PBS. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-51510 was packaged aseptically in cryovials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-51510 is reactive in indirect immunofluorescence assays using BSC40 cells infected with recombinant vaccinia viruses expressing glycoproteins from various arenaviruses. 1.2 The antibody is not neutralizing *in vitro* and shows no protection from virus challenge in *in vivo* mouse models. 2 Clone KL AV 1B3 antibody is reported to be a broadly cross-reactive anti-arenavirus antibody in ELISA and showed strong binding activity to glycoproteins derived from Old World (OW) arenaviruses (LASV and Mopeia virus) but low level binding to glycoproteins derived from New World arenaviruses (Parana virus, Pinchinde virus, Machupo virus and Tamiami virus). 2 It recognizes an epitope from subunit 2 of the glycoprotein complex that is relatively conserved among arenaviruses. 1.2

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Arenavirus (OW) rGPC, Clone KL-AV-1B3 (produced *in vitro*), NR-51510."

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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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. Krammer, F., Personal Communication.
- Amanat, F., et al. "Antibodies to the Glycoprotein GP2 Subunit Cross-React Between Old and New World Arenaviruses." mSphere 3 (2018): e00189-18. PubMed: 29720525.

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

BEI Resources www.beiresources.org E-mail: contact@beiresources.org Tel: 800-359-7370

Fax: 703-365-2898