

Monoclonal Anti-Lassa Virus rGPC, Clone KL-AV-1A2 (produced *in vitro*)

Catalog No. NR-51508

For research use only. Not for human use.

Contributor:

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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-1A2 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 Lassa virus, strain Nig08-A19 (LASV GPC) three times followed by a final LASV GPC recombinant protein boost.¹

Material Provided:

Each vial of NR-51508 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-51508 was packaged aseptically in screw-capped plastic vials 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-51508 is reactive in indirect immunofluorescence assays using BSC40 cells infected with recombinant vaccinia viruses expressing glycoproteins from 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-1A2 antibody is also reported to function in ELISA and to recognize 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-Lassa Virus rGPC, Clone KL-AV-1A2 (produced *in vitro*), NR-51508.”

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.

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References:

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

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