

**Monoclonal Anti-Lassa Virus rGPC, Clone KL-AV-1A12 (produced *in vitro*)**

**Catalog No. NR-51509**

**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-1A12 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 protein boost with recombinant LASV GPC protein of the same strain.<sup>1</sup>

**Material Provided:**

Each vial of NR-51509 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-51509 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-51509 is reactive in indirect immunofluorescence assays using BSC40 cells infected with recombinant vaccinia viruses expressing glycoproteins from arenaviruses.<sup>1,2</sup> The antibody is not neutralizing *in vitro* and shows no protection from virus challenge in *in vivo* mouse models.<sup>2</sup> Clone KL-AV-1A12 antibody is also reported to be functional in ELISA, western blot analysis, flow cytometry and immunocytochemistry and to bind to GPC from LASV and Mopeia virus, both old world arenaviruses. It recognizes an epitope from subunit 2 of the glycoprotein complex that is relatively conserved among arenaviruses.<sup>1,2</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Lassa Virus rGPC, Clone KL-AV-1A12 (produced *in vitro*), NR-51509.”

**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. 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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