

**Monoclonal Anti-Arenavirus (LASV) rGPC,  
Clone KL-AV-1H9 (produced *in vitro*)**

**Catalog No. NR-51512**

**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 arenavirus recombinant glycoprotein complex (rGPC) was purified from clone KL-AV-1H9 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 sequentially immunized with DNA vaccines encoding ectodomain of glycoprotein from Lassa virus (LASV GPC), followed by Machupo virus (MACV GPC) and Mopeia virus (MOPV GPC) with a final LASV GPC recombinant protein boost.<sup>1,2</sup>

**Material Provided:**

Each vial of NR-51512 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-51512 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-51512 is reported to function in ELISA with rGPC proteins and to recognize a linear epitope from subunit 2 of the glycoprotein complex that is relatively conserved among arenaviruses.<sup>1,2</sup> Clone KL-AV-1H9 antibody is not neutralizing *in vitro* and shows no protection from virus challenge in *in vivo* mouse models.<sup>2</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Arenavirus (LASV) rGPC, Clone KL-AV-1H9 (produced *in vitro*), NR-51512.”

**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](http://www.cdc.gov/biosafety/publications/bmb15/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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