

**Monoclonal Anti-Arenavirus (OW) rGPC,  
Clone KL-AV-1G12 (produced *in vitro*)**

**Catalog No. NR-51511**

**For research use only. Not for human use.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG2bk

Mouse monoclonal antibody prepared against the Old World (OW) arenavirus recombinant glycoprotein complex (rGPC) was purified from clone KL-AV-1G12 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 finally Mopeia virus (MOPV GPC) with a final LASV GPC recombinant protein boost.<sup>1</sup>

**Material Provided:**

Each vial of NR-51511 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-51511 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-51511 is reactive in indirect immunofluorescence assays using BSC40 cells infected with recombinant vaccinia viruses expressing glycoproteins from various 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-1G12 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.<sup>1,2</sup>

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Arenavirus (OW) rGPC, Clone KL-AV-1G12 (produced *in vitro*), NR-51511.”

**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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