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: IgG2b

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.1

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.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-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.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-1G12 (produced in vitro), NR-51511."

Biosafety Level: 1


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References:

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