

Monoclonal Anti-Vaccinia Virus (WR) L1R Protein, Residues 1 to 185 (similar to VMC-3), (produced *in vitro*)

Catalog No. NR-45115

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1k
 Mouse monoclonal antibody to a recombinant form of the L1R protein [L1R(185t); residues 1 to 185, C-terminal histidine-tagged] of the Western Reserve (WR) strain of vaccinia virus was purified from hybridoma supernatant by protein G affinity chromatography.¹ The B cell hybridoma was generated by the fusion of SP2/0 myeloma cells with immunized BALB/c splenocytes.¹

Material Provided:

Each vial of NR-45115 contains approximately 100 µg of purified monoclonal antibody in PBS. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-45115 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. For long-term storage, a temperature of -65°C or colder is recommended. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-45115 was purified from the same hybridoma as VMC-3. The specificity of the VMC-3 antibody was determined by reactivity to L1R(185t) by ELISA and confirmed by western blot analysis using reducing and non-reducing conditions. The reactivity pattern in ELISA assays using overlapping peptides spanning residues 1 to 185 of L1R indicates that VMC-3 recognizes an epitope within amino acids 118 to 128. VMC-3 also neutralizes the infectivity of the intracellular mature virus (IMV) form of vaccinia virus in BS-C-1 cells using an IMV plaque reduction assay.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Vaccinia Virus (WR) L1R Protein, Residues 1 to 185 (similar to VMC-3), (produced *in vitro*), NR-45115."

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 \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Aldaz-Carroll, L., et al. "Physical and Immunological Characterization of a Recombinant Secreted Form of the Membrane Protein Encoded by the Vaccinia Virus L1R Gene." *Virology* 341 (2005): 59-71. PubMed: 16083934.

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