

Monoclonal Anti-Vaccinia Virus (WR) A27L Protein, Residues 1 to 110 (similar to VMC-38), (produced *in vitro*)

Catalog No. NR-50436

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1κ

Mouse monoclonal antibody to a recombinant form of the A27L membrane glycoprotein¹⁻³ of the Western Reserve (WR) strain of vaccinia virus was purified from hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of SP2/0 myeloma cells with immunized BALB/c splenocytes. A27L consists of asparagine and proline residues added to the N-terminus and 6 histidines added to the C-terminus. NR-50436 was purified from the same hybridoma as VMC-38.

Material Provided:

Each vial 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:

The purified monoclonal antibody was packaged aseptically in cryovials. The product is provided on dry ice and should be stored at -20°C or colder immediately upon arrival. For long-term storage, a temperature of -65°C or colder is recommended. Repeated freeze-thaw cycles should be avoided.

Functional Activity:

NR-50436 was purified from the same hybridoma as VMC-38. VMC-38 hybridoma supernatant has been shown to react with A27L (BEI Resources NR-544) in ELISA.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Vaccinia Virus (WR) A27L Protein, Residues 1 to 110 (similar to VMC-38), (produced *in vitro*), NR-50436.”

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.

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References:

- Rodriguez, J. F. and M. Esteban. “Mapping and Nucleotide Sequence of the Vaccinia Virus Gene that Encodes a 14-Kilodalton Fusion Protein.” J. Virol. 61 (1987): 3550–3554. PubMed: 2822962. GenPept: P11258.
- Amegadzie, B. Y., B. Y. Ahn, and B. Moss. “Identification, Sequence, and Expression of the Gene Encoding a M_r 35,000 Subunit of the Vaccinia Virus DNA-Dependent RNA Polymerase.” J. Biol. Chem. 266 (1991): 13712–13718. PubMed: 1856205.

- Sanderson, C.M., M. Hollinshead, and G.L. Smith. "The Vaccinia Virus A27L Protein is Needed for the Microtubule-Dependent Transport of Intracellular Mature Virus Particles." *J. Gen. Virol.* 81 (2000): 47–58. PubMed: 10640541.

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