

**Monoclonal Anti-Vaccinia Virus (WR) A27L Protein, Residues 1 to 110 (similar to VMC-49), (produced *in vitro*)****Catalog No. NR-568****For research use only. Not for human use.****Contributor:**

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**Product Description:**

Antibody Class: IgG1

Mouse monoclonal antibody to a recombinant form of the A27L membrane glycoprotein<sup>1,2</sup> [residues 1 to 110 (full-length), DP added to N-terminus, 6 histidines added to C-terminus] of the Western Reserve (WR) strain of vaccinia virus was purified from a mouse B cell hybridoma using ammonium sulfate precipitation and size exclusion chromatography. The mouse B cell hybridoma was generated by the fusion of SP2/0 myeloma cells with immunized BALB/c splenocytes.

**Material Provided:**

Each vial contains approximately 1.0 mL of purified monoclonal antibody in 50 mM borate buffer (pH 8.0 ± 0.2) containing 0.1 M sodium chloride and no preservatives. 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-568 was purified from the same hybridoma as VMC-49. NR-568 reacts in an ELISA assay with A27L (BEI Resources NR-544).

**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. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at [www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm).

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Monoclonal Anti-Vaccinia Virus (WR) A27L Protein, Residues 1 to 110 (similar to VMC-49), (produced *in vitro*), NR-568."

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**References:**

1. 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.
2. Amegadzie, B. Y., B. Y. Ahn, and B. Moss. "Identification, Sequence, and Expression of the Gene Encoding a Mr 35,000 Subunit of the Vaccinia Virus DNA-Dependent RNA Polymerase." *J. Biol. Chem.* 266 (1991): 13712–13718. PubMed: 1856205.

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