

# **Product Information Sheet for NR-428**

SUPPORTING INFECTIOUS DISEASE RESEARCH

Monoclonal Anti-Vaccinia Virus (WR) B5R Protein, Residues 20 to 275 (Ectodomain), (similar to VMC-13), (produced *in vitro*)

# Catalog No. NR-428

# 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 B5R envelope glycoprotein [B5R(275t); residues 20 to 275 comprising the ectodomain, N-terminal histidine-tagged]¹ 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  $8.0 \pm 0.2$ ) 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:1

NR-428 was purified from the same hybridoma as VMC-13. The specificity of the antibody was determined by reactivity to B5R(275t) by ELISA and confirmed by Western blot analysis under reducing and non-reducing conditions. VMC-13 does not neutralize the infectivity of the extracellular enveloped virus (EEV) form of vaccinia virus in BS-C-1 cells using an EEV plaque reduction assay. VMC-13 does not inhibit the comet tail formation of the EEV form of vaccinia virus in BS-C-1 cells using a comet tail inhibition assay.

### 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. <u>Biosafety in Microbiological and Biomedical Laboratories</u>. 4th ed. Washington, DC: U.S. Government Printing Office, 1999. HHS Publication No. (CDC) 93-8395. This text is available online at <a href="https://www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4/bmbl4toc.htm">www.cdc.gov/od/ohs/biosfty/bmbl4/bmbl4toc.htm</a>.

#### 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) B5R Protein, Residues 20 to 275 (Ectodomain), (similar to VMC-13), (produced *in vitro*), NR-428."

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#### References:

 Aldaz-Carroll, L., et al. "Epitope-Mapping Studies Define Two Major Neutralization Sites on the Vaccinia Virus Extracellular Enveloped Virus Glycoprotein B5R." <u>J. Virol.</u> 79 (2005): 6260–6271. PubMed: 15858010.

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