

Monoclonal Anti-Venezuelan Equine Encephalitis Virus, TC-83 (Subtype IA) E2 Glycoprotein Antibody, Clone 3B4C-4

Catalog No. NR-51617

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For research use only. Not for human use.

Contributor:

National Institute of Allergy and Infectious Diseases, National Institutes of Health, USA

Product Description:

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against the E2 glycoprotein of Venezuelan equine encephalitis (VEE) virus, TC-83 (subtype IA) was purified from clone 3B4C-4 hybridoma supernatant by protein A affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 myeloma cells with splenocytes from mice immunized with purified VEE virus, strain TC-83.¹ The clone 3B4C-4 antibody is reported to be specific for VEE E2 glycoprotein.^{1,2}

Material Provided:

Each vial of NR-51617 contains approximately 100 µL of purified monoclonal antibody in Dulbecco's phosphate buffered saline (D-PBS). The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-51617 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-51617 was shown to be reactive in ELISA, immunoprecipitation, immunoblotting and hemagglutination assays.¹

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Venezuelan Equine Encephalitis Virus, TC-83 (Subtype IA) E2 Glycoprotein Antibody, Clone 3B4C-4, NR-51617."

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/bmbl5/index.htm.

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References:

1. Roehrig, J. T., J. W. Day and R. M. Kinney. "Antigenic Analysis of the Surface Glycoproteins of a Venezuelan Equine Encephalomyelitis Virus (TC-83) Using Monoclonal Antibodies." *Virology* 118 (1982): 269-278. PubMed: 6178209.
2. Roehrig, J. T. and J. H. Mathews. "The Neutralization Site on the E2 Glycoprotein of Venezuelan Equine Encephalomyelitis (TC-83) Virus is Composed of Multiple Conformationally Stable Epitopes." *Virology* 142 (1985): 347-356. PubMed: 2414905.

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