

**Monoclonal Anti-West Nile Virus, Clone 5H10 (produced *in vitro*)**

**Catalog No. NR-28904**

**For research use only. Not for human use.**

**Contributor:**

BEI Resources

**Manufacturer:**

BioReliance, Rockville, Maryland

**Product Description:**

Antibody Class: IgG2a

Monoclonal antibody prepared against West Nile virus (WNV) was purified from clone 5H10 hybridoma supernatant by protein A affinity chromatography. The B cell hybridoma was generated by the fusion of mouse myeloma cells with immunized mouse splenocytes. The clone 5H10 antibody is reported to bind to domain III of the envelope glycoprotein.<sup>1</sup> It does not cross-react with Japanese encephalitis virus (JEV) or St. Louis encephalitis virus (SLEV).

**Material Provided:**

Each vial of NR-28904 contains approximately 100 µg of purified monoclonal antibody in phosphate buffered saline with 0.01% thimerosal. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

**Packaging/Storage:**

NR-28904 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on ice bricks. NR-28904 should be stored at -20°C or colder immediately upon arrival. For long term storage, -60°C or colder is recommended. Freeze-thaw cycles should be avoided. The antibody should be mixed with an equal volume of bovine serum albumin (BSA) stabilizer (20% BSA, 0.2% thimerosal) prior to use. The diluted antibody can be stored at 2°C to 8°C for up to one month, or aliquoted and stored at -20°C in a non-cycling freezer for longer stability.

**Functional Activity:**

NR-28904 is reported to neutralize WNV strain 385-99 and to detect the envelope protein in western blot assays.<sup>1</sup> The antibody has also been tested in ELISA and immunohistochemistry applications.

**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, 2007; see [www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm).

**Citation:**

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-West Nile Virus, Clone 5H10 (produced *in vitro*), NR-28904.”

**Disclaimers:**

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**References:**

1. Beasley, D. W., and A. D. Barrett. “Identification of Neutralizing Epitopes within Structural Domain III of the West Nile Virus Envelope Protein.” *J. Virol.* 76 (2002): 13097-13100. PubMed: 12438639.

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