

**Monoclonal Anti-West Nile Virus Envelope Protein, Clone E101 (produced *in vitro*)**

**Catalog No. NR-10140**

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

**Contributor:**

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**Manufacturer:**

NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH

**Product Description:**

Antibody Class: IgG2ak  
 Mouse monoclonal antibody prepared against the envelope glycoprotein of West Nile virus (WNV) was purified from clone E101 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63.Ag8.53 BALB/c mouse myeloma cells with immunized mouse splenocytes. The clone E101 antibody is reported to bind to the lateral ridge of domain I in the envelope glycoprotein.<sup>1,2</sup>

**Material Provided:**

Each vial of NR-10140 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:**

NR-10140 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-10140 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-10140 is reactive in immunofluorescence assays using Vero cells infected with WNV and by ELISA using WNV-infected cell lysates [WNV, Eg101 (Egypt 1951); BEI Resources NR-676]. The antibody is reported to be reactive using flow cytometry and Western blot analysis.<sup>3</sup>

**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/bmbl5/bmbl5toc.htm](http://www.cdc.gov/od/ohs/biosfty/bmbl5/bmbl5toc.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-West Nile Virus Envelope Protein, Clone E101 (produced *in vitro*), NR-10140.”

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**References:**

1. Oliphant, T., et al. “Development of a Humanized Monoclonal Antibody with Therapeutic Potential against West Nile Virus.” *Nat. Med.* 11 (2005): 522-530. PubMed: 15852016.
2. Oliphant, T., et al. “Antibody Recognition and Neutralization Determinants on Domain I and II of West Nile Virus Envelope Protein.” *J. Virol.* 80 (2006): 12149-12159. PubMed: 17035317.
3. M. S. Diamond, personal communication.

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