

Monoclonal Anti-Dengue Virus Type 1 Envelope Protein, Clone E47 (produced *in vitro*)

Catalog No. NR-4756

For research use only. Not for human use.

Contributor:

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Product Description:

Antibody Class: IgG1κ

Mouse monoclonal antibody prepared against the envelope glycoprotein of dengue virus type 1 (DEN-1) was purified from clone E47 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63.Ag.8.6.5.3 BALB/c mouse myeloma cells with immunized mouse splenocytes. The clone E47 antibody is reported to bind to domain I-II in the envelope glycoprotein.¹

Material Provided:

Each vial of NR-4756 contains approximately 100 µL of purified monoclonal antibody in PBS.

Packaging/Storage:

NR-4756 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-4756 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-4756 is reactive in immunofluorescence assays using Vero cells infected with DEN-1 and by ELISA using DEN-1-infected cell lysates (DEN-1, Hawaii; BEI Resources NR-82). The antibody is reported to have neutralizing activity, to be reactive using flow cytometry and to cross-react with dengue virus types 2 and 4.¹

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.

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-Dengue Virus Type 1 Envelope Protein, Clone E47 (produced *in vitro*), NR-4756.”

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References:

1. M. S. Diamond, personal communication.

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