Monoclonal Anti-Dengue Virus Type 1 Envelope Protein, Clone E13 (produced *in vitro*)

Catalog No. NR-4744

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
Antibody Class: IgG1κ
Mouse monoclonal antibody prepared against the envelope glycoprotein of dengue virus type 1 (DEN-1) was purified from clone E13 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag8.653 BALB/c mouse myeloma cells with immunized mouse splenocytes. The clone E13 antibody is reported to bind to domain III in the envelope glycoprotein.[1]

Material Provided:
Each vial of NR-4744 contains approximately 100 µL of purified monoclonal antibody in phosphate-buffered saline. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis for each lot.

Packaging/Storage:
NR-4744 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-4744 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-4744 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). See the Certificate of Analysis for each lot for details. The antibody is also reported to be reactive using flow cytometry and to cross-react with dengue virus types 2, 3 and 4.[1]

Citation:
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Dengue Virus Type 1 Envelope Protein, Clone E13 (produced *in vitro*), NR-4744."

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. M. S. Diamond, Personal Communication.

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