

Monoclonal Anti-Dengue Virus Type 3 Envelope Protein, Clone E1 (produced *in vitro*)

Catalog No. NR-15510

For research use only. Not for human use.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG2ak
 Mouse monoclonal antibody prepared against the envelope glycoprotein of dengue virus type 3 (DEN-3) was purified from clone E1 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag.653 myeloma cells with immunized mouse splenocytes. The clone E1 antibody is reported to bind to domain III in the envelope glycoprotein.¹

Material Provided:

Each vial of NR-15510 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-15510 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-15510 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-15510 is reactive on DEN-3-infected cells (DEN-3, strain MK-594-87, BEI Resources NR-3799) in indirect immunofluorescence assays (IFA). The antibody is reported to be type-specific, non-neutralizing, and to bind to bacterially-expressed DEN-3 DIII in ELISA.¹

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Dengue Virus Type 3 Envelope Protein, Clone E1 (produced *in vitro*), NR-15510.”

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. Brien, J. D., et al., “Genotype-Specific Neutralization and Protection by Antibodies Against Dengue Virus Type 3.” J. Virol. 84 (2010): 10630-10643. PubMed: 20702644.

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