

Monoclonal Anti-Dengue Virus Type 3 Envelope Protein, Clone E11 (produced *in vitro*)

Catalog No. NR-15518

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 protein of dengue virus type 3 (DEN-3) was purified from clone E11 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag8.653 myeloma cells with immunized mouse splenocytes. The clone E11 antibody is reported to bind to domain I/II (DI/II) in the envelope protein.¹

Material Provided:

Each vial of NR-15518 contains approximately 0.1 mL of purified monoclonal antibody in PBS. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-15518 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-15518 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-15518 is reactive with DEN-3-infected cells (DEN-3, strain MK-594-87, BEI Resources NR-3799) in indirect immunofluorescence assays. See Certificate of Analysis for details. The antibody is reported to be cross-reactive with DEN-1 and West Nile virus, non-neutralizing, and to react with DEN-3 DI/II expressed on yeast cells.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 E11 (produced *in vitro*), NR-15518."

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/bmb15/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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