

**Monoclonal Anti-Dengue Virus Type 4 Envelope Protein, Clone E43 (produced *in vitro*)**

**Catalog No. NR-15549**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG2bk

Mouse monoclonal antibody prepared against the envelope protein of dengue virus type 4 (DEN-4) was purified from clone E43 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.<sup>1</sup>

**Material Provided:**

Each vial of NR-15549 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-15549 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. The item should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-15549 is reactive on C6/36 cells infected with DEN-4, D85-019 (BEI Resources NR-3804) in indirect immunofluorescence assays. See Certificate of Analysis for details. The antibody is reported to be type-specific, non-neutralizing, and to react with DEN-4 envelope protein expressed on yeast cells.<sup>1</sup>

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Dengue Virus Type 4 Envelope Protein, Clone E43 (produced *in vitro*), NR-15549."

**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](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

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**References:**

1. Sukupolvi-Petty, S., et al. "Functional Analysis of Antibodies against Dengue Virus Type 4 Reveals Strain-Dependent Epitope Exposure that Impacts Neutralization and Protection." J. Virol. 87 (2013): 8826-8842. PubMed: 23785205.

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