

## Monoclonal Anti-Dengue Virus Type 4 Envelope Protein, Clone E2 (produced *in vitro*)

Catalog No. NR-15537

**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 4 (DEN-4) was purified from clone E2 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-15537 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-15537 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-15537 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

### Functional Activity:

NR-15537 is reactive on Vero 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 and neutralizing.<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 E2 (produced *in vitro*), NR-15537."

### 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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