

**Monoclonal Anti-Dengue Virus Type 2 Envelope Protein, Clone 3H5-1 (produced *in vitro*)**

**Catalog No. NR-2556**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

Antibody Class: IgG1k  
 Mouse monoclonal antibody prepared against the envelope protein of dengue virus type 2 (DEN-2) was purified from clone 3H5-1 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag8 myeloma cells with immunized mouse splenocytes.<sup>1</sup>

**Material Provided:**

Each vial of NR-2556 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-2556 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-2556 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Functional Activity:**

NR-2556 is reactive on LLC-MK2 Derivative cells infected with DEN-2, New Guinea C (BEI Resources NR-84) in indirect immunofluorescence assays. See Certificate of Analysis for details. The antibody is reported to be type-specific and neutralizing.<sup>1,2</sup>

**Citation:**

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Dengue Virus Type 2 Envelope Protein, Clone 3H5-1 (produced *in vitro*), NR-2556."

**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. Henchal, E. A., et al., "Dengue Virus-Specific and Flavivirus Group Determinants Identified with Monoclonal Antibodies by Indirect Immunofluorescence." Am. J. Trop. Med. Hyg. 31 (1982): 830-836. PubMed: 6285749.
2. Abd-Jamil, J., C.Y. Cheah and S. AbuBakar, "Dengue Virus Type 2 Envelope Protein Displayed as Recombinant Phage Attachment Protein Reveals Potential Cell Binding Sites." Protein Eng. Des. Sel. 21 (2008): 605-611. PubMed: 18669522.

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