

Monoclonal Anti-Dengue Virus Type 1 Nonstructural Protein 1, Clone 15F3-1 (produced *in vitro*)

Catalog No. NR-10121

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 nonstructural protein 1 (NS1) of dengue virus type 1 (DEN-1) was purified from clone 15F3-1 hybridoma supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of P3X63Ag8 myeloma cells with immunized mouse splenocytes.¹

Material Provided:

Each vial of NR-10121 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-10121 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-10121 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

The functional activity of NR-10121 has not been confirmed. The antibody is reported to be type-specific,¹ and to bind to a linear epitope corresponding to amino acid residues 111 to 116 of DEN-1 NS1 (residues 885 to 890 of the polyprotein).^{2,3}

Citation:

Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Dengue Virus Type 1 Nonstructural Protein 1, Clone 15F3-1 (produced *in vitro*), NR-10121."

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. Henschal, 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. Yao, Z. J., et al. "A Serotype-Specific Epitope of Dengue Virus 1 Identified by Phage Displayed Random Peptide Library." FEMS Microbiol. Lett. 127 (1995): 93-98. PubMed: 7537702.
3. Wu, H.-C., et al., "Identification of B-Cell Epitope of Dengue Virus Type 1 and its Application in Diagnosis of Patients." J. Clin. Microbiol. 39 (2001): 977-982. PubMed: 11230414.

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