

Monoclonal Anti-Dengue Virus Type 4 Envelope Protein, Clone E29 (produced *in vitro*)

Catalog No. NR-15542

For research use only. Not for use in humans.

Contributor:

Michael S. Diamond, M.D., Ph.D., Departments of Medicine, Molecular Microbiology, Pathology and Immunology, Washington University School of Medicine, Saint Louis, Missouri

Manufacturer:

BEI Resources

Product Description:

Antibody Class: IgG1k

Mouse monoclonal antibody prepared against the envelope glycoprotein of dengue virus type 4 (DEN-4) was purified from clone E29 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 E29 antibody is reported to bind to domain III (DIII) in the envelope protein.¹

Material Provided:

Each vial of NR-15542 contains approximately 100 µL of purified monoclonal antibody in PBS. The concentration, expressed as mg/mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-15542 was packaged aseptically in screw-capped plastic vials and is provided frozen on dry ice. The product should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Functional Activity:

NR-15542 is reactive on Vero cells infected with DEN-4, D85-019 in indirect immunofluorescence assays. The antibody is reported to be type-specific, neutralizing, and to react with DEN-4 DIII 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 4 Envelope Protein, Clone E29 (produced *in vitro*), NR-15542.”

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 \(BMBL\)](#), 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

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.

ATCC® is a trademark of the American Type Culture Collection.

