

Monoclonal Anti-*Clostridium botulinum* Neurotoxin Type A Light Chain, Clone 2E5.7 (immunoglobulin M, Mouse)

Catalog No. NR-9402

For research use only. Not for human use.

NR-9402 is being provided without functional confirmation. Please read the Certificate of Analysis carefully to determine whether or not this product is acceptable for your intended use.

Contributor:

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Product Description:

Antibody Class: IgMκ

Mouse monoclonal antibody to the light chain of *Clostridium botulinum* neurotoxin type A was purified by mannan-binding protein affinity chromatography from a mouse hybridoma clonal cell line (Clone 2E5.7).

Type A botulinum neurotoxin (BoNT) is a zinc-binding metalloprotease (holotoxin ~ 150 kDa) that is endogenously cleaved into a heavy (~ 100 kDa) and a light chain (~ 50 kDa) that are held together by a reducible disulfide bond.¹

Material Provided:

Each vial of NR-9402 contains approximately 94 µg of monoclonal antibody in PBS with 0.02% sodium azide. The concentration, expressed as mg per mL, is shown on the Certificate of Analysis.

Packaging/Storage:

NR-9402 was packaged in cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Monoclonal Anti-*Clostridium botulinum* Neurotoxin Type A Light Chain, Clone 2E5.7 (immunoglobulin M, Mouse), NR-9402."

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, 2007; see www.cdc.gov/od/ohs/biosfty/bmb15/bmb15toc.htm.

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References:

1. Sathyamoorthy, V. and B. R. DasGupta. "Separation, Purification, Partial Characterization and Comparison of the Heavy and Light Chains of Botulinum Neurotoxin Types A, B, and E." *J. Biol. Chem.* 260 (1985): 10461-10466. PubMed: 4030755.
2. Sharma, S. K., M. A. Ramzan and B. R. Singh. "Separation of the Components of Type A Botulinum Neurotoxin Complex by Electrophoresis." *Toxicon* 41 (2003): 321-331. PubMed: 12565755.

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