Monoclonal Anti-Epsilon Toxin from *Clostridium perfringens*, Clone P5C10C11 (produced in vitro)

**Catalog No. NR-15474**
This reagent is the tangible property of the U.S. Government.

**For research use only. Not for human use.**
NR-15474 is being provided without confirmation of functional activity. However, culture supernatant from hybridoma clone P5C10C11 was shown to react with recombinant *Clostridium perfringens* (C. perfringens) epsilon toxin by western blot and ELISA.¹

Hybridoma clone P5C10C11 produces IgG2b and IgM. NR-15474 was purified from clone P5C10C11 supernatant and contains both IgG2b and IgM.

Please read the Certificate of Analysis carefully to determine whether this product is acceptable for your intended use.

**Contributor and Manufacturer:**
BEI Resources

**Product Description:**
*Antibody Class:* IgG2b and IgM
Monoclonal antibody prepared against recombinant epsilon toxin from *C. perfringens*² was purified from hybridoma clone P5C10C11 supernatant by protein G affinity chromatography. The B cell hybridoma was generated by the fusion of Sp2/0-Ag14 myeloma cells with splenocytes from BALB/c mice immunized with purified recombinant protein.

*C. perfringens* are common soil-dwelling bacteria that can infect humans and domestic livestock. These bacteria are classified into types A-E based on the toxins produced during the growth of these organisms. Epsilon toxin is produced by types B and D³ and is thought to form pores in target cell membranes resulting in edema in various organs and the central nervous system.

**Material Provided:**
Each vial of NR-15474 contains 80 µg to 120 µg of purified antibody in PBS. The concentration and content are shown on the Certificate of Analysis for each lot.

**Packaging/Storage:**
NR-15474 was packaged aseptically in screw-capped plastic cryovials and is provided frozen on dry ice. NR-15474 should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

**Citation:**
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Monoclonal Anti-Epsilon Toxin from *Clostridium perfringens*, Clone P5C10C11 (produced in vitro), NR-15474.”

**Biosafety Level: 1**

**Disclaimers:**
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**References:**
1. Personal communication.


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