Polyclonal Anti-Ricin Toxin B Chain
(immune globulin G, Rabbit)

Catalog No. NR-864
This reagent is the tangible property of the U.S. Government.

For research use only. Not for human use.

Contributor and Manufacturer:
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Product Description:
Polyclonal immune globulin G antibody to ricin\(^1\) toxin was produced by immunization of rabbits with recombinant ricin B chain and purified from serum by caprylic acid precipitation.\(^2\)

Ricin holotoxin consists of two polypeptide chains, A and B, linked by a disulfide bond. The A chain catalytically inactivates the eukaryotic 28S ribosomal RNA subunit, resulting in the inhibition of protein synthesis and death of the cell. The ricin toxin B chain is a galactose-specific lectin that mediates the binding and delivery of the toxin to target cells.\(^3\)\(^5\)

Material Provided:
Each vial contains approximately 0.1 mg of NR-864 in phosphate-buffered saline.

Packaging/Storage:
NR-864 was filter sterilized and packaged aseptically in cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Once thawed, the unused material may be stored at 4°C. Freeze-thaw cycles should be avoided.

Functional Activity:
NR-864 reacts with ricin holotoxin in a standard ELISA. The polyclonal immune globulin G antibody can be labeled or radiolabeled without losing specificity. Applications: ELISA.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through the NIH Biodefense and Emerging Infections Research Resources Repository, NIAID, NIH: Polyclonal Anti-Ricin Toxin B Chain (immune globulin G, Rabbit), NR-864.”

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


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References:

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