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

Catalog No. NR-862
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For research use only. Not for human use.

Contributor and Manufacturer:
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Product Description:
Polyclonal immune globulin G antibody specific to ricin\(^1\) toxin was produced by immunization of rabbits with reduced and alkylated ricin holotoxin that was extracted and purified from the seeds of the castor bean plant *Ricinus communis*. The polyclonal immune globulin G antibody was purified from serum by caprylic acid precipitation.\(^2\)

Ricin toxin is one of the most toxic and easily produced plant toxins. Ricin toxin 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 B chain is responsible for receptor binding and delivery of the toxin to the target cell.

Material Provided:
Each vial contains approximately 0.1 mg of NR-862 in phosphate-buffered saline.

Packaging/Storage:
NR-862 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-862 is specific to ricin toxin as determined by Western blot analysis. The polyclonal immune globulin antibody can bind both denatured and native ricin toxin, and can be labeled or radiolabeled without losing specificity. Applications: ELISA, Western blot.

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 (immune globulin G, Rabbit), NR-862.”

Biosafety Level: 1

Disclaimers:
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References:

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