

Product Information

Anti-Pseudomonas Exotoxin A

antibody produced in rabbit,
delipidized, whole antiserum

Catalog Number **P2318**

Product Description

Anti-Pseudomonas Exotoxin A is developed in rabbit using purified Exotoxin A from *Pseudomonas aeruginosa* as immunogen. The antiserum has been treated to remove lipoproteins.

Pseudomonas aeruginosa exotoxin A (PE) exhibits a number of properties similar to those of other microbial super antigens. PE has three structural domains. The N-terminal domain (I) is responsible for the binding of toxin to its receptor on the cells, the middle domain (II) has a role in the translocation of toxin across the membrane, and the C-terminal domain (III) has the ADP-ribosylation activity.¹ This toxin has been used as a component of recombinant toxins developed as novel therapeutics.² PE is lethal for cells because it has the ability to irreversibly shut down protein synthesis. In tissue culture, PE is most active against fibroblastic cell lines.

Reagent

The product is supplied as a liquid containing 15 mM sodium azide as preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2–8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is **not** recommended. Storage in "frost-free" freezers is **not** recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

By dot blot immunoassay, using ligands immobilized on nitrocellulose membrane (50–500 ng/dot), the antiserum reacts versus *Pseudomonas* exotoxin A, but shows no reaction versus Staphylococcal enterotoxin A, Staphylococcal enterotoxin B, and Cholera toxin. The product has not been tested for its neutralization potency against active *Pseudomonas* exotoxin A.

1. A minimum dilution of 1:20,000 was obtained by dot blot immunoassay using purified *Pseudomonas* exotoxin A immobilized on nitrocellulose membranes (Protein concentration: 50–500 ng/dot).
2. A minimum working dilution: 1:250,000 was determined by ELISA using a 1 µg/ml solution of *Pseudomonas* exotoxin A as coating

References

1. Hwang, J. et al., *Cell*, **48**, 129 (1987).
2. Pastan, I., and Fitzgerald, D., *Science*, **254**, 1173 (1991).

DS,KAA,MAM 06/12-1