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Product Information

Anti-Staphylococcal α-Toxin (α-Hemolysin)
produced in rabbit, delipidized whole antiserum

Catalog Number **S7531**

Product Description

Anti-Staphylococcal α-Toxin (α-Hemolysin) is produced in rabbit using purified toxin from *Staphylococcus aureus* as immunogen. The antiserum has been treated to remove lipoproteins.

By dot blot immunoassay, using ligands immobilized on nitrocellulose membrane (50-500 ng/dot), the antiserum reacts against Staphylococcal α-Toxin (α-Hemolysin), but shows no reaction against Staphylococcal Enterotoxin A, Cholera Toxin and Pseudomonas Exotoxin A. The antibody has not been tested for its neutralization potency against active Staphylococcal α-Toxin (α-Hemolysin).

Staphylococcal α-Toxin (α-Hemolysin) is the major cytolysin of pathogenic *Staphylococcus aureus*. This water-soluble, extracellular 33 kDa protein has strong membrane damaging properties and is selectively hemolytic with a marked preference for rabbit erythrocytes.[1] Staphylococcal α-Toxin forms hexameric aggregates on interaction with animal or artificial membranes and has been postulated as "channel forming protein.[2]

Anti-Staphylococcal α-Toxin (α-Hemolysin) may be used for studies of the toxin-membrane interaction

Reagent

The antibody is supplied as a liquid containing 0.1% sodium azide as preservative.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. 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, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Product Profile

Dot blot: a minimum working dilution of 1:20,000 using purified Staphylococcal α-Toxin (α-Hemolysin) immobilized on nitrocellulose membranes (protein concentration: 50 ng/dot).

ELISA: a minimum working dilution of 1:50,000

References

1. Thelestam, M., and Blomqvist, L., *Toxicon*, **26**, 55 (1988).
2. Forti, S., and Menestrina, G., *Eur. J. Biochem.*, **181**, 767 (1989).
3. Hugo, F., *et al.*, *Infect. Immun.*, **55**, 2933 (1987).

DS,KAA,PHC 09/11-1