Product datasheet

Anti-Staphylococcus Enterotoxin A antibody ab15897

1 References

Overview

Product name
Anti-Staphylococcus Enterotoxin A antibody

Description
Rabbit polyclonal to Staphylococcus Enterotoxin A

Host species
Rabbit

Specificity
Ab15897 gives absorbance readings (410 nm) of less than 0.100 for 10 ng/ml preparations of staphylococcal enterotoxins B through E, ET, TSST, and alpha hemolysin. Cross reacts with Staphylococcus Enterotoxin E

Tested applications
Suitable for: WB, ELISA

Species reactivity
Reacts with: Staphylococcus aureus

Immunogen
Highly purified (> 95%) Staphylococcus aureus Enterotoxin A

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
Preservative: None
Constituents: PBS, pH 7.4

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab15897 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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Application notes
ELISA: Use at a concentration of 10 µg/ml. When a standard well is coated at this concentration
(100µl/well) the following results are obtained:
10 ng/ml SEA, Absorbance (410 nm) = 2.00 after 15 minute incubation.
1.25 ng/ml SEA, Absorbance (410 nm) = 0.78 after 15 minute incubation.

WB: Use at a concentration of 1 µg/ml. Predicted molecular weight: 30 kDa.

Not tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance
Staphylococcal enterotoxins represent a group of proteins, which are secreted by Staphylococcus aureus and cause the intoxication staphylococcal food poisoning syndrome. The illness characterised by high fever, hypotension, diarrhea, shock, and in some cases death. Their molecular masses range between 27 and 30 kDa. At present, seven enterotoxins are known, namely A, B, C1, C2, C3, D and E. Their amino acid sequences have been determined and it was shown that all are single chain polypeptides containing one disulfide bond formed by two half cystines located in the middle of the polypeptide chain, which form the so called cysteine loop. Enterotoxins are known to be most potent T cell mitogens. T cell activation accompanied by induction of interleukin 2 and interferon is conditioned by high affinity interaction of S.enterotoxins with class II main histocompatibility complex (MHC) molecules and subsequent presentation of the complex formed to a variable region of the T cell receptor.

Cellular localization
Secreted

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