



Staphylococcus aureus Enterotoxin A (SEA)

Catalog number

S7965-24A

Supplier

United States Biological

Staphylococcal enterotoxins represent a group of proteins, which are secreted by *Staphylococcus aureus* and cause the intoxication staphylococcal food poisoning syndrome. The illness is characterized by high fever, hypotension, diarrhea, shock, and in some cases death. . At present, seven enterotoxins are known, namely A, B, C1, C2, C3, D and E, and their molecular masses range between 27 and 30kD. 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. aureus* 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.

Applications

Suitable for use in ELISA and Western Blot. Other applications not tested.

Recommended Dilutions

Optimal dilutions to be determined by the researcher.

Hybridoma

Sp2/0 myeloma cells with spleen cells from Balb/c mice.

Recommended Pairs

Capture: S7965-24B, S7965-24C, S7965-24L

Detection: S7965-24A

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

Staphylococcus aureus Enterotoxin type A.

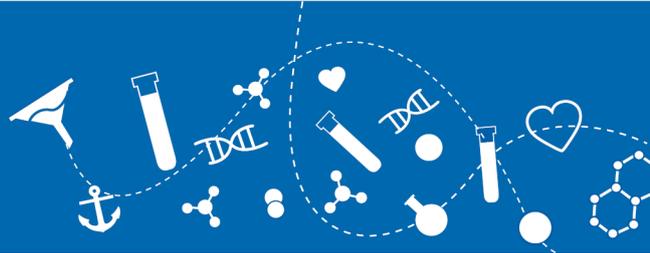
Formulation

Supplied as a liquid in PBS, pH 7.4, 0.09% sodium azide.

Purity

Purified by Protein G affinity chromatography from ascites.

Specificity



Recognizes Staphylococcus aureus Enterotoxin type A.

Product Type

Mab

Source

S.aureus

Isotype

IgG1

Grade

Affinity Purified

Applications

E WB

Storage

-20°C