BACKGROUND

Staphylococcus enterotoxin A (SEA) is a member of the Staphylococcal enterotoxin family. Staphylococcal enterotoxins are proteins secreted by Staphylococcus aureus that cause food poisoning. The illness is characterized by high fever, hypotension, diarrhea, shock and sometimes death. Staphylococcus enterotoxin A are single chain polypeptides containing one disulfide bond formed by two half cystines in the middle of the chain. Enterotoxins cause T cell activation accompanied by induction of interleukin-2. Interferon is conditioned by interaction of Staphylococcus enterotoxins with class II MHC molecules and subsequent presentation of the complex formed to a variable region of the T cell receptor.

REFERENCES


SOURCE

SEA (A111) is a mouse monoclonal antibody raised against Staphylococcus aureus enterotoxin A.

PRODUCT

Each vial contains 200 µg IgG2a in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin. Available as phycoerythrin (sc-73346 PE) or fluorescein (sc-73346 FITC) conjugates for flow cytometry, 100 tests.

APPLICATIONS

SEA (A111) is recommended for detection of SEA of Staphylococcus origin by flow cytometry (1 µg per 1 x 10^6 cells); also recommended for detection of enterotoxin E.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

STORAGE

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.