

SEA (A163): sc-73348

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

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SOURCE

SEA (A163) is a mouse monoclonal antibody raised against *Staphylococcus aureus* enterotoxin A.

STORAGE

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

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SEA (A163) is available conjugated to either phycoerythrin (sc-73348 PE) or fluorescein (sc-73348 FITC), 200 μ g/ml, for IF, IHC(P) and FCM.

APPLICATIONS

SEA (A163) is recommended for detection of SEA of *Staphylococcus* origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

RESEARCH USE

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

PROTOCOLS

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