

SEA (A228): sc-73347

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 (A228) 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 (A228) is available conjugated to either phycoerythrin (sc-73347 PE) or fluorescein (sc-73347 FITC), 200 μ g/ml, for IF, IHC(P) and FCM.

APPLICATIONS

SEA (A228) is recommended for detection of SEA of *Staphylococcus* origin by flow cytometry (1 μ g per 1 x 10⁶ cells); also recommended for detection of enterotoxin E.

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.