

## SEA (A108): sc-73345

### 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 (A108) is a mouse monoclonal antibody raised against Enterotoxin A of *Staphylococcus aureus* origin.

### 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  $\mu$ g IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SEA (A108) is available conjugated to agarose (sc-73345 AC), 500  $\mu$ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-73345 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-73345 PE), fluorescein (sc-73345 FITC), Alexa Fluor® 488 (sc-73345 AF488), Alexa Fluor® 546 (sc-73345 AF546), Alexa Fluor® 594 (sc-73345 AF594) or Alexa Fluor® 647 (sc-73345 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-73345 AF680) or Alexa Fluor® 790 (sc-73345 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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### APPLICATIONS

SEA (A108) is recommended for detection of SEA of *Staphylococcus* origin by flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells); also recommended for detection of enterotoxin E.

Molecular Weight of SEA: 32 kDa.

### RESEARCH USE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.