**BACKGROUND**

*Staphylococcus enterotoxin B* (SEB) 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* enterotoxins are single chain polypeptides containing one disulfide bond formed by two half cystines in the middle of the chain. SEB commonly is referred to as a "bacterial superantigen" because it is an extremely potent activator of T cells, stimulating the production and secretion of various cytokines which mediate many of the toxic effects of SEB. SEB also inhibits naturally occurring regulatory T cell (nTreg) activity.

**REFERENCES**


**SOURCE**

SEB (B344) is a mouse monoclonal antibody raised against *Staphylococcus aureus* enterotoxin B.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. SEB (B344) is available conjugated to either phycoerythrin (sc-73349 PE) or fluorescein (sc-73349 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

SEB (B344) is recommended for detection of SEB of *Staphylococcus aureus* origin by flow cytometry (1 µg per 1 x 10⁶ cells).

**RESEARCH USE**

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