SEB (B87): sc-73352



The Power to Question

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

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SOURCE

SEB (B87) is a mouse monoclonal antibody raised against *Staphylococcus aureus* enterotoxin B.

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 $\mu g \ lg G_1$ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

SEB (B87) is available conjugated to either phycoerythrin (sc-73352 PE) or fluorescein (sc-73352 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

SEB (B87) is recommended for detection of SEB of *Staphylococus aureus* origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

Molecular Weight of SEB: 31 kDa.

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.

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