

SEB (S222): sc-52228

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. The molecular masses of *Staphylococcal* 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 (S222) is a mouse monoclonal antibody raised against recombinant enterotoxin B of *Staphylococcus aureus* origin.

PRODUCT

Each vial contains 100 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SEB (S222) is recommended for detection of enterotoxin B of *Staphylococcus aureus* origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Molecular Weight of SEB: 31 kDa.

SELECT PRODUCT CITATIONS

- Wang, C., Xiao, R., Wang, S., Yang, X., Bai, Z., Li, X., Rong, Z., Shen, B. and Wang, S. 2019. Magnetic quantum dot based lateral flow assay biosensor for multiplex and sensitive detection of protein toxins in food samples. *Biosens. Bioelectron.* 146: 111754.

STORAGE

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

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.