



Mouse Anti-Staphylococcal Enterotoxin B [SEB] Monoclonal Antibody Datasheet

Product Name: mAb anti-Staphylococcal Enterotoxin B [SEB] **Clone No.:** SEB

Catalogue No.: MO-M40041 **Quantity:** 0.5 mg/vial

Description: Mouse monoclonal antibody to staphylococcal enterotoxin B (SEB)

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: SEB

Immunogen: SEB purified from *Staphylococcus aureus*

Fusion Myeloma: Sp2/0-Ag14

Species Reactivity: Staphylococcal enterotoxin B

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Toxicology, food safety and microbiology

Background: Staphylococcal enterotoxin B (SEB) is an enterotoxin secreted by *Staphylococcus aureus*. The bacterium thrives on meat, baking and dairy products and also colonizes in host

nasal passageway. Ingestion of SEB contaminated food is the common cause of “food poisoning”, manifested by flu-like symptoms, vomiting, diarrhea and intestinal cramps. In severe cases, SEB can cause respiratory failure and systemic toxic shock. These symptoms are the results of increased membrane permeability and abnormal activation of T-lymphocytes by SEB. SEB acts as a superantigen by binding directly to major histocompatibility complex class II (MHCII) on antigen presenting cells, thus, causing massive CD4 and CD8 T-cells activation and cytokine production. If unchecked, the process can result in systemic organ failure and death.

Applications: ELISA

References: Wei Lian et al. [Sensitive detection of multiplex toxins using antibody microarray](#). Analytical Biochemistry 401 (2010) 271–279.

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