ARG10080
anti-Staphylococcus Enterotoxin B antibody [SEB]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [SEB] recognizes Staphylococcus Enterotoxin B
Tested Reactivity	S. aureus
Tested Application	ELISA
Host	Mouse
Clonality	Monoclonal
Clone	SEB
Isotype	IgG1, kappa
Target Name	Staphylococcus Enterotoxin B
Species	Bacteria
Immunogen	SEB purified from Staphylococcus aureus
Conjugation	Un-conjugated

Application Instructions

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Protein G affinity purified
Buffer	0.01M PBS (pH 7.2)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background	Staphylococcal enterotoxin B (SEB) is an enterotoxin secreted by Staphylococcus aureus. The bacterium thrives on meet, 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.
Research Area	Microbiology and Infectious Disease antibody