



Magic™ Anti-Staphylococcus type 1 Staphylococcus Enterotoxin I Monoclonal antibody, Clone N29723FJ3 (DCABY-4633)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	Staphylococcus Enterotoxin B
Target	Staphylococcus type 1 Staphylococcus Enterotoxin I
Immunogen	Staphylococcus Enterotoxin I antibody was raised in mouse using recombinant St. aureus enterotoxin I expressed in E. coli as the immunogen
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Staphylococcus
Clone	N29723FJ3
Purification	Staphylococcus Enterotoxin I antibody was purified by chromatography on protein G Sepharose.
Conjugate	Unconjugated
Applications	ELISA Pr*, Immunoassays Suggested pair for sandwich ELISA (Capture - Detection): DCABY-4633 - DCABY-4632
Format	Liquid
Size	1 mg
Buffer	Supplied in PBS, pH 7.4, 0.1 % NaN3.

Preservative	0.1% Sodium Azide
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Storage	Store at 4 °C
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BACKGROUND

Introduction

Heat-labile enterotoxin is a type of labile toxin found in *Escherichia coli* that is inactivated at high temperatures. It acts similarly to the cholera toxin by raising cAMP levels through ADP-ribosylation of the alpha-subunit of a Gs protein leading to the constitutive activation of adenylate cyclase. Elevated cAMP levels stimulate secretion of Chloride ions and water from the enterocyte into the gut lumen, thus causing watery diarrhea. In addition to its effects on chloride secretion, which involve the same steps as the effects of cholera toxin, heat-labile enterotoxin binds additional substrates: lipopolysaccharide on the surface of *E. coli* cells and A-type blood antigens. The importance of these binding events is not yet known.

Keywords

Enterotoxin I *Staphylococcus Aureus*; *Staphylococcus Aureus* I;