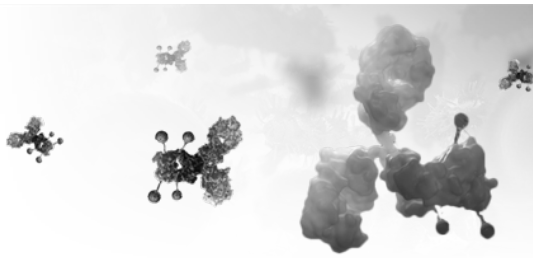

Mouse Anti-S. epidermidis LTA Monoclonal antibody, clone 112 (CABT-CS182)

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

PRODUCT INFORMATION

Specificity	Based on ELISA, this mAb reacts with LTA from S. epidermidis, Hay strain (ATCC 55133) as well as clinical strains of S. epidermidis types I, II and III. The antibody also reacts with LTA from S. aureus types 5 and 8, Streptococcus pyogenes, Streptococcus fecaelis and Streptococcus mutans. This mAb does not react with peptidoglycan from S. aureus, peptidoglycan rhamnose or pneumococcal polysaccharides. It also does not react with live E. coli or H. influenzae type B.
Target	S. epidermidis LTA
Immunogen	Staphylococcus epidermidis, Hay strain (ATCC 55133).
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	S. epidermidis, S. aureus, S. pyogenes
Clone	112
Purification	Antibody is purified using immobilized protein A.
Conjugate	unconjugated
Applications	ELISA
Format	Liquid
Size	200 µg
Buffer	PBS

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Preservative	None
Storage	2-3 weeks +4°C; -20°C long term.

BACKGROUND

Introduction	Lipoteichoic acid (LTA) is the major proinflammatory structure present within the cell wall layer of most gram-positive bacteria. It plays an important role in the initiation and progression of bacterial infection, inflammation, and septic shock. LTA induces several cytokines in vivo, and LTA and peptidoglycan (PepG) synergize to cause the induction of nitric oxide formation which can lead to multiple organ failure. Since LTA is also found in the cell walls of non-pathogenic gram-positive bacteria, it has been suggested that the structure of LTA , and its ability to synergize with PepG, determines the ability of a particular bacterium to cause septic shock.
Keywords	S. epidermidis LTA; LTA; lipoteichoic acid

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