



IBT BIOSERVICES

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Mouse anti-lipoteichoic acid (LTA) mAb

Catalog #: 0270-001

Lot #: 1309002

Immunogen: *Staphylococcus epidermidis*, Hay strain (ATCC 55133).

Description: Mouse monoclonal antibody (mAb) reactive to *Staphylococcus lipoteichoic acid*.

Supplied: 200 µg is supplied in PBS at a concentration of 0.92 mg/mL.

Purification: Antibody is purified using immobilized protein A.

Clonality: Monoclonal of the IgG1 subtype.

Relevance: 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. The antibody can be used for detection of LTA produced from *Staphylococcus* cells.

Recommended Dilutions:

Optimal use dilution should be determined for each individual application.

ELISA 0.1 – 1.0 µg/mL

Opsionization assay: use at 80-160 µg/ml (optimized for *Staph. epidermidis*, Hay strain).

Storage: 2-3 weeks +4°C, -20°C or colder for long term

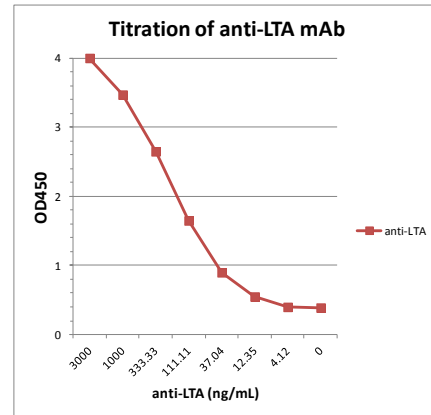
Cross Reactivity: Based on ELISA, this mAb reacts with LTA from *S. epidermidis*, Hay strain (ATCC 55133) as well as clinical strains of *S. epidermidis* types I, II and III. The antibody also reacts with LTA from *S. aureus* types 5 and 8, *Streptococcus pyogenes*, *Streptococcus fecalis* and *Streptococcus 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.

Intended for research use only, not for human, therapeutic, or diagnostic applications.

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ELISA Data:



ELISA plates were coated overnight at room temperature with 1 µg/ml of LTA-BSA (Fina Biosolutions). After washing, mouse monoclonal anti-LTA (0270-001) was added at the indicated dilutions and incubated for 30 minutes at room temperature. Bound anti-LTA mAb (0270-001) was detected using gamma-specific goat anti-mouse IgG-HRP (SouthernBiotech). The assay was developed using one-component TMB and TMB Stop Solution (SouthernBiotech).

Related Products:

- S. aureus* Lipoteichoic acid (LTA)
Catalog #: 1600-001
- Anti- *S. aureus* Alpha-Hemolysin Polyclonal Antibody
Catalog # 04-0010
- Anti-*S. aureus* SEB mAb for Western blotting
Catalog # 0220-013
- Anti- *S. aureus* SEB mAb for ELISA, Western & Neutralization
Catalog # 0220-009
- Anti- *S. aureus* Gamma Hemolysin B Polyclonal Antibody
Catalog # 0314-001
- Anti- *S. aureus* Gamma Hemolysin C Polyclonal Antibody
Catalog # 0314-002
- S. aureus* Gamma Hemolysin B (Hlg B) recombinant, purified protein,
Catalog # 1403-001
- S. aureus* Gamma Hemolysin C (Hlg C) recombinant, purified protein,
Catalog # 1403-002
- Anti- *S. aureus* PVL LukS Polyclonal Antibody
Catalog # 04-0009
- Anti- *S. aureus* LukS-PV Monoclonal Antibody
Catalog # 0221-001
- S. aureus* LukS-PV recombinant, purified protein
Catalog # 0530-001
- Anti- *S. aureus* PVL LukF Polyclonal Antibody
Catalog # 0312-002
- S. aureus* LukF-PV recombinant, purified protein
Catalog # 0530-002