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Mouse anti-lipoteichoic acid (LTA) mAb

Catalog #: 0270-001

Lot #: 2008001

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 0.611 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:

ELISA 0.1 – 1.0 µg/mL

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

Storage: 2-3 weeks +4°C; -20°C 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 faecalis* 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.

ELISA Data:

mAb LTA (µg/mL)	OD 650 nm
10.000	3.071
3.162	2.958
1.000	2.964
0.316	2.944
0.100	2.821
0.032	2.528
0.010	1.756
0.003	0.878
0.001	0.262
0.000	0.127

Plates were coated overnight at +4°C with 2 µg/ml of LTA-BSA (Fina Biosolutions). Mouse monoclonal anti-LTA (0270-001) was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-mouse IgG-HRP conjugate and TMB substrate. OD650 is reported above.

For additional *S. aureus* products, please visit:

<https://www.ibtbioservices.com/product-category/staphylococcus/>

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