

OriGene Technologies Inc.

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Monoclonal Antibody to Lipoteichic Acid (LTA) - Low Endotoxin

Catalog No.: AM32119LE-N

Quantity: 0.2 mg

Concentration: → 0.2 mg/ml

Background: Lipoteichoic Acid 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. It induces several cytokines in vivo, and Lipoteichoic Acid and peptidoglycan (PepG) synergize to cause the induction of nitric oxide formation which can lead to multiple organ failure. Since Lipoteichoic Acid is also found in the cell walls of non-pathogenic gram-positive bacteria, it has been suggested that its structure and its ability to synergize with PepG determine the ability of a particular

bacterium to cause septic shock.

Host / Isotype: Mouse / IgG3
Recommended AM08210LE-N

Isotype Controls:

Clone: 55

Format: State: Culture Medium with a Low Endotoxin Level

Preservatives: 0.02% Sodium Azide

Applications: Western blotting: Use 1/50 as starting working dilution.

Immunoassays

Immunohistochemistry on Frozen Sections: Use 1/50 as starting working dilution.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This Monoclonal antibody clone 55 reacts with Lipoteichoic Acid (LTA).

Store the antibody undiluted at 2-8°C.

Shelf life: one year from despatch.

General Readings: 1. van Langevelde P, van Dissel JT, Ravensbergen E, Appelmelk BJ, Schrijver IA, Groeneveld

 $PH.\ Antibiotic-induced\ release\ of\ lipoteichoic\ acid\ and\ peptidoglycan\ from\ Staphylococcus$

aureus: quantitative measurements and biological reactivities. Antimicrob Agents

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2. van Langevelde P, Ravensbergen E, Grashoff P, Beekhuizen H, Groeneveld PH, van Dissel JT. Antibiotic-induced cell wall fragments of Staphylococcus aureus increase endothelial chemokine secretion and adhesiveness for granulocytes. Antimicrob Agents Chemother.

1999 Dec;43(12):2984-9. PubMed PMID: 10582893.

3. Henneke P, Morath S, Uematsu S, Weichert S, Pfitzenmaier M, Takeuchi O, et al. Role of lipoteichoic acid in the phagocyte response to group B streptococcus. J Immunol. 2005 May

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15;174(10):6449-55. PubMed PMID: 15879147.

4. Triantafilou M, Manukyan M, Mackie A, Morath S, Hartung T, Heine H, et al. Lipoteichoic acid and toll-like receptor 2 internalization and targeting to the Golgi are lipid raft-dependent. J Biol Chem. 2004 Sep 24;279(39):40882-9. Epub 2004 Jul 9. PubMed PMID: 15247273.

