

Polyclonal Antibody to Lipoteichoic Acid (LTA) - Purified

| | |
|-----------------------|---|
| Catalog No.: | BP984 |
| Quantity: | 1 ml |
| Concentration: | 5.0 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: | Rabbit |
| Immunogen: | Native Lipoteichoic Acid from <i>Staphylococcus aureus</i> |
| Format: | State: Liquid purified Ig fraction. Purification: Affinity Chromatography on Protein G. Buffer System: PBS, pH 7.2, containing 0.09% Sodium Azide as preservative. |
| Applications: | ELISA: In a simple ELISA using 1 µg antigen coated per well, the 50% OD was obtained at an antibody dilution of 1/500. under the same conditions, the endpoint-titer was at 1/4,500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody is specific for Lipoteichoic Acid (LTA), a surface-associated adhesion amphiphile from Gram-positive bacteria and regulator of muramidases. Species: <i>S. aureus</i> . Other species not tested. |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch. |