

AM00857PU-N**Monoclonal Antibody to Gram Positive Bacteria - Purified**

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| Quantity: | 1 mg |
| Concentration: | 0.1 mg/ml (OD280nm, E0.1% = 1.3) |
| Background: | Bacteria cells are classified as Gram-positive if they retain a crystal violet dye during the Gram stain process. Gram-positive bacteria appear blue or violet under a microscope after the stain has been applied, whereas Gram-negative bacterial look red or pink. This difference in color is mainly due to the characteristics of the cell wall. Gram-positive bacteria generally have a thicker layer of peptidoglycan, a polymer consisting of sugars and amino acids that forms a homogeneous layer outside the plasma membrane. Gram-positive bacteria also have two rings supporting any flagellum and teichoic acids in the cell wall that function as as chelating agents and aid in adherence. Major groups of Gram-positive bacteria include the genera Bacillus, Listeria, Staphylococcus, Streptococcus, Enterococcus and Clostridium, as well as the phylum Actinobacteria. Gram-positive bacteria markers comprise a variety of proteins present on Gram-positive cells, and can aid in the study of function and behavior of this type of bacteria. |
| Host / Isotype: | Mouse / IgG1 |
| Recommended Isotype Controls: | AM03095PU-N |
| Clone: | BDI380 |
| Immunogen: | Intact <i>Listeria monocytogenes</i> . |
| Format: | State: Liquid purified IgG fraction (>90% pure) Purification: Protein A Chromatography Buffer System: 0.01M PBS, pH 7.2 Preservatives: 0.09% Sodium Azide Stabilizers: None |
| Applications: | ELISA. IFA. Colloidal gold conjugate. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody clone <i>BDI380</i> is reactive with lipoteichoic acid (LTA) of many Gram Positive bacteria. Cross-reacts with <i>Listeria monocytogenes</i> (all serotypes), <i>Streptococcus pneumoniae</i> , <i>Staphylococcus aureus</i> , <i>Staphylococcus epidermidis</i> , <i>Enterococcus faecium</i> , <i>Bacillus cereus</i> , <i>Bacillus subtilis</i> and group B <i>Streptococcus</i> (weak). Does <u>not</u> react with <i>Clostridium perfringens</i> . |
| Storage: | Store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |