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AM32120LE-N Monoclonal Antibody to Polymyxin B (PMB) - Low Endotoxin

Quantity: 0.2 mg

Concentration: › 0.2 mg/ml

Background: The peptide antibiotic **Polymyxin B** (PMB) binds to bacterial endotoxin (lipopolysaccharide, LPS). The interaction of PMB with LPS involves ionic forces between amino groups in PMB and negatively charged phosphate and carboxyl groups in the lipid A-Kdo region. PMB has relevance for endotoxin research in at least two ways: first, PMB reacts with LPS of many species regardless of varied serospecificity, and thus it can be used as a general probe for measuring or detecting LPS or lipid A. Second, binding of PMB to LPS may result in neutralization of the detrimental effects of LPS either *in vitro* or *in vivo*.

Host / Isotype: Mouse / IgM

Clone: 45

Format: **State:** Culture Medium with a Low Endotoxin
Preservatives: 0.02% Sodium Azide

Applications: **Western blotting:** Use 1/50 as starting working dilution.
Immunoassays.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This Monoclonal antibody clone *45* reacts with Polymyxin B. It binds to free Polymyxin B as well as to Polymyxin B already bound to LPS.
This antibody enables the possibilities to study quantitatively the interaction of PMB and LPS.

Storage: Store the antibody undiluted at 2-8°C.
Shelf life: one year from despatch.

General Readings: 1. Appelmelk BJ, Su D, Verweij-van Vught AM, Thijs BG, MacLaren DM. Polymyxin B-horseradish peroxidase conjugates as tools in endotoxin research. Anal Biochem. 1992 Dec;207(2):311-6. PubMed PMID: 1481986.