Mouse Anti-Penicillin & Derivatives Monoclonal Antibody

Mouse, Monoclonal (Penicillin & Derivatives)
Cat. No. DMAB4053
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Monoclonal Antibody to Penicillin & Derivatives
Specificity: Penicillins G, V, N, ampicillin, amoxicillin, metacillin, cloxacillin, and other antibiotics with penicillanic acid core. Much higher affinity for hydrolyzed (open) beta-lactam ring than closed ring. Does not react with betalactams with cephalosporanic acid core, other classes of antibiotics, or milk and serum proteins.
Clone: DH-2012
Isotype: IgG1, kappa
Host animal: Mouse.
Source: Ascites
Format: Diluted Ascites, Liquid
Applications: A standard dilution of 1:1,500 is suggested in ELISA. Sensitivity of approximately 50pg/ml penicillin, 100pg/ml cloxacillin and 200pg/ml ampicillin, amoxicillin and metacillin when used with the included conjugate.
Purification: Not applicable
Affinity Constant: Not determined

REFERENCES

BACKGROUND

Introduction: Penicillin is a group of Beta-lactam antibiotics used in the treatment of bacterial infections caused by susceptible, usually Gram-positive, organisms. ß-lactam antibiotics work by inhibiting the formation of peptidoglycan cross-links in the bacterial cell wall, which results in cytolysis.
Keywords: Ampicillin; Benzylpenicillin; PCN; Penicillin; Penicillin G; Phenoxyethylpenicillin; Amoxicillin Trihydrate; AMPICILLIN CRYST.RESEARCH GRADE;

PACKAGING

Concentration: Not determined
Buffer: PBS
Preservative: 0.05% Sodium azide
Storage: Store at -20°C. Avoid multiple freeze/thaw cycles.
Warning: This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1 –1.0 %. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.