

Beta-Lactamase Monoclonal Antibody

ORDERING INFORMATION

Catalog No.: 15721 (3E11.G3)

Size: 1 mg antibody, purified by PEG precipitation, in PBS, pH 7.4.

BACKGROUND

The beta-lactam antibiotics (penicillins and cephalosporins) are the most frequently used antimicrobial agents. All of the beta-lactams are structurally related through the presence of a core beta-lactam ring. Bacterial resistance to beta-lactams continues to increase, primarily due to the production of beta-lactamases. Beta-lactamases catalyze the hydrolysis of the beta-lactam bond which destroys antibacterial activity. Bacteria that produce TEM- or SHV-type beta-lactamases have point mutations in structural genes that have extended the substrate specificity of these beta-lactamases. As a result, many of the beta-lactamase-producing Gram-negative pathogens have become multi-drug resistant.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.

SPECIFICATION SUMMARY

Antigen: Type IV beta-lactamase from *Enterobacter cloacae*.

Host Species: Mouse

Antibody Class: IgG3

Stabilizers: None

Preservatives: None. Available on request.

SPECIFICITY

This antibody specifically recognizes Type IV beta-lactamase of *Enterobacter cloacae*.

APPLICATIONS

ELISA: use antibody at 10-20 ug/ml (optimized for beta-lactamase on solid phase at 10 ug/ml). All applications have not been investigated.

DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.