

Datasheet for 200-4375-0100**Penicillinase Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Penicillinase (Enterobacter cloacae) (RABBIT) Antibody Peroxidase Conjugated - 200-4375-0100
Item No.:	200-4375-0100
Size:	100 µg
Applications:	Dot Blot
Reactivity:	Enterobacter cloacae
Host Species:	Rabbit

Product Details

Background:	Penicillinase is a specific type of β -lactamase, showing specificity for penicillin, again by hydrolyzing the beta-lactam ring. Molecular weights of the various penicillinases cluster around 50 kDa. Beta-lactamase provides antibiotic resistance by breaking the antibiotics' structure. These antibiotics all have a common element in their molecular structure: a four-atom ring known as a beta-lactam. Through hydrolysis, the lactamase enzyme breaks the β -lactam ring open, deactivating the molecule's antibacterial properties.
Synonyms:	rabbit anti-Penicillinase Antibody Peroxidase Conjugation, HRP Conjugated rabbit anti-Penicillinase Antibody, Aer1 antibody, Beta lactamase 1 antibody, Beta lactamase AER 1 antibody, OXA9 antibody, Oxacillinase antibody, PenPC antibody, Cephalosporinase
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ampC
Reactivity:	Enterobacter cloacae
Immunogen Type:	Native Protein

Immunogen:	Penicillinase [Enterobacter cloacae]
Purity/Specificity:	Penicillinase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Rabbit Serum as well as purified and partially purified Penicillinase [Enterobacter cloacae]. Cross reactivity against Penicillinase from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P05364 • NCBI - AA024600.1 • GenelD - 9125732

Application Details

Tested Applications:	Dot Blot
Application Note:	Anti-Penicillinase Peroxidase conjugated antibody has been tested by dot blot and is suitable to be assayed against 1.0 ug of Penicillinase [Enterobacter cloacae] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenzthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IP:	1:100
WB:	1:250

Formulation

Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

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