

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

Description:	Anti-Penicillinase (Enterobacter cloacae) (RABBIT) Antibody Peroxidase Conjugated - 200-4375S
Item No.:	200-4375S
Size:	25 µL
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](#)
- [GeneID - 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-ethylbenzothiazoline-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: Liquid (sterile filtered)

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

Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Expiration: Expiration date is one (1) year from date of receipt.

Disclaimer

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