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Datasheet for 200-4375

Penicillinase Antibody Peroxidase Conjugated

Overview

Description:	Anti-Penicillinase (Enterobacter cloacae) (RABBIT) Antibody Peroxidase Conjugated (BULK ORDER) - 200-4375
Item No.:	200-4375
Size:	20 mg
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 - AAO24600.1 • 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-ethylbenthiazoline-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.
ELISA:	1:5,000 - 1:20,000
IP:	1:100
WB:	1:500 - 1:5,000

Formulation

Physical State:	Lyophilized
Concentration:	10 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:	2.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

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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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.