

Datasheet for 100-4175

Penicillinase Antibody

Overview

Description:	Anti-Penicillinase (Enterobacter cloacae) (RABBIT) Antibody - 100-4175
Item No.:	100-4175
Size:	2 mL
Reactivity:	Enterobacter cloacae
Host Species:	Rabbit

Product Details

Background:	PENICILLINASE Antibody detects penicillinase a beta-lactamase. Beta-lactamases are enzymes produced by some bacteria and are responsible for their resistance to beta-lactam antibiotics like penicillin, cephamycin, and carbapenems (ertapenem). These antibiotics have a common element in their molecular structure: a four-atom ring known as a beta-lactam. The lactamase enzyme breaks the β -lactam ring open, deactivating the molecule's antibacterial properties. Anti-PENICILLINASE Antibody is suitable for researchers in microbiology and immunology.
Synonyms:	rabbit anti-penicillinase, Penicillinase, Beta-lactamase, Cephalosporinase, ampC
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	ampC
Reactivity:	Enterobacter cloacae
Immunogen Type:	Native Protein
Immunogen:	Penicillinase [Enterobacter cloacae]
Purity/Specificity:	Anti-PENICILLINASE Antibody was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, 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:

- [NCBI - AAO24600.1](#)
- [UniProtKB - P05364](#)
- [GeneID - 9125732](#)

Application Details

Application Note:

Anti-PENICILLINASE Antibody has been assayed against 1.0 ug of Penicillinase [*Enterobacter cloacae*] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code as a substrate for 30 minutes at room temperature. A working dilution of 1:6,000 to 1:26,000 of the reconstitution concentration is suggested for this product. Optimal assay conditions should be determined by the researcher.

Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
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ELISA:	1:5,000 - 1:20,000
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IP:	1:100
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WB:	1:500 - 1:5,000
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Formulation

Physical State:	Lyophilized
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Concentration:	90 mg/mL by Refractometry
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Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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Preservative:	0.01% (w/v) Sodium Azide
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Stabilizer:	None
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Reconstitution Volume:	2.0 mL
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Reconstitution Buffer:	Restore with deionized water (or equivalent)
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Shipping & Handling

Shipping Condition:	Ambient
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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.
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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.