



[Go to Product page](#)

Datasheet for ABIN5596958  
**anti-Penicillinase antibody (HRP)**

### Overview

Quantity:	100 µg
Target:	Penicillinase
Reactivity:	Enterobacter cloacae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Penicillinase antibody is conjugated to HRP
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

### Product Details

Immunogen:	Immunogen: Penicillinase [Enterobacter cloacae] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Cross reactivity against Penicillinase from other tissues and species may occur but have not been specifically determined.
Purification:	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].

## Target Details

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Target:	Penicillinase
Abstract:	<a href="#">Penicillinase Products</a>
Background:	<p>Synonyms: Aer1 antibody, Beta lactamase 1 antibody, Beta lactamase AER 1 antibody, OXA9 antibody, Oxacillinase antibody, PenPC antibody</p> <p>Background: Penicillinase is a specific type of <math>\beta</math>-lactamase, showing specificity for penicillins, again by hydrolysing 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 <math>\beta</math>-lactam ring open, deactivating the molecule's antibacterial properties.</p> <p>Gene Name: OXA9</p>
Gene ID:	9125732
UniProt:	<a href="#">P05364</a>

## Application Details

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Application Notes:	<p>Application Note: Anti-Penicillinase has been assayed against 1.0 <math>\mu</math>g of Penicillinase [<i>Enterobacter cloacae</i>] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-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.</p> <p>Western Blot Dilution: 1:500 - 1:5,000</p> <p>Immunoprecipitation Dilution: 1:100</p> <p>ELISA Dilution: 1:5,000 - 1:20,000</p>
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 $\mu$ L Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

## Handling

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Preservative:	Gentamicin sulfate
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months