

Datasheet for ABIN5596908  
**anti-CA2 antibody (HRP)**



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1 Image

## Overview

Quantity:	100 µg
Target:	CA2
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CA2 antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

## Product Details

Immunogen:	Immunogen: Carbonic Anhydrase II [Human Erythrocytes] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Cross reactivity against Carbonic Anhydrase II from other sources may occur but have not been specifically determined.
Purification:	Carbonic anhydrase II 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 Carbonic Anhydrase II [Human Erythrocytes].

## Target Details

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Target:	CA2
Alternative Name:	Carbonic Anhydrase II ( <a href="#">CA2 Products</a> )
Background:	<p>Synonyms: Carbonate dehydratase II antibody, Carbonic anhydrase 2 antibody, Carbonic anhydrase B antibody, Carbonic anhydrase C antibody, Carbonic anhydrase II antibody, Carbonic dehydratase antibody</p> <p>Background: Carbonic anhydrase II (CA2), is one of fourteen forms of human <math>\alpha</math> carbonic anhydrases. Carbonic anhydrase catalyzes reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Carbonic anhydrase II has been shown to interact with Band 3 and Sodium-hydrogen antiporter 1.</p> <p>Gene Name: CA2</p>
Gene ID:	760
UniProt:	<a href="#">P00918</a>

## Application Details

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Application Notes:	<p>Immunohistochemistry Dilution: 1:100 - 1:500</p> <p>Application Note: Anti-Carbonic anhydrase II has been assayed against 1.0 <math>\mu</math>g of Carbonic Anhydrase II [Human Erythrocytes] 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 1:1,000 to 1:6,000 of the reconstitution concentration is suggested for this product.</p> <p>Western Blot Dilution: 1:250 - 1:1,000</p> <p>ELISA Dilution: 1:500 - 1:2,500</p>
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Restrictions:	For Research Use only
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## Handling

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Format:	Lyophilized
Reconstitution:	Reconstitution Volume: 100 $\mu$ L Reconstitution Buffer: Restore with deionized water (or equivalent)
Concentration:	1.0 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
Preservative:	Gentamicin sulfate

## Handling

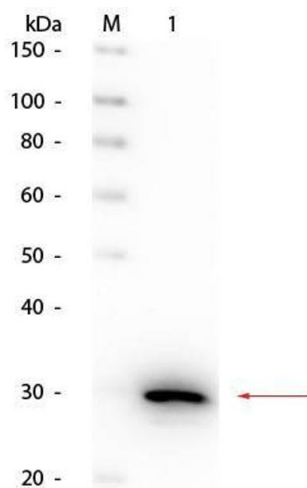
Precaution of Use: This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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

## Images



### Western Blotting

**Image 1.** Western Blot of Rabbit anti-Carbonic Anhydrase II Antibody Peroxidase Conjugated. Lane 1: Carbonic Anhydrase II. Load: 50 ng per lane. Primary antibody: Rabbit anti-Carbonic Anhydrase II Antibody Peroxidase Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: n/a. Block: ABIN925618 for 30 minutes at RT. Predicted/Observed size: 29 kDa, 29 kDa for Carbonic Anhydrase II.