



## Datasheet for ABIN96021 anti-CA2 antibody



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### 2 Images

#### Overview

Quantity:	100 µg
Target:	CA2
Reactivity:	Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CA2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

#### Product Details

Immunogen:	Carbonic Anhydrase II [Bovine Erythrocytes] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	Cross reactivity against Carbonic Anhydrase II from other tissues and species may occur but have not been specifically determined.
Purity:	Anti-CARBONIC ANHYDRASE II Antibody 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-Rabbit Serum as well as purified and partially purified Carbonic Anhydrase II [Bovine Erythrocytes].
Endotoxin Level:	Low Endotoxin : No

## Target Details

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Target:	CA2
Alternative Name:	Carbonic Anhydrase II ( <a href="#">CA2 Products</a> )
Background:	<p>CARBONIC ANHYDRASE II Antibody is specific for carbonic anhydrase II. Carbonic anhydrases (or carbonate dehydratases) are a family of metalloenzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and Hydrogen (or vice versa). This reversible reaction occurs slowly in the absence of the carbonic anhydrase catalyst. The active site of most carbonic anhydrases contains a zinc ion cofactor. One of the functions of the enzyme in animals is to interconvert carbon dioxide and bicarbonate to maintain acid-base balance in blood and other tissues, and to help transport carbon dioxide out of tissues.</p> <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>
Gene ID:	280740
UniProt:	<a href="#">P00921</a>

## Application Details

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Application Notes:	<p>Anti CARBONIC ANHYDRASE II Antibody has been assayed against 1.0 µg of Carbonic Anhydrase II [Bovine Erythrocytes] in a standard sandwich ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&amp;L] (Goat) [code #611-1302] and TMBE [code # TMBE-1000] as a substrate for 30 minutes at room temperature.</p> <p>ELISA Dilution: 1:20.000 - 1:100.000</p> <p>Western Blot Dilution: 1:2.000 - 1:10.000</p>
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Restrictions:	For Research Use only
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## Handling

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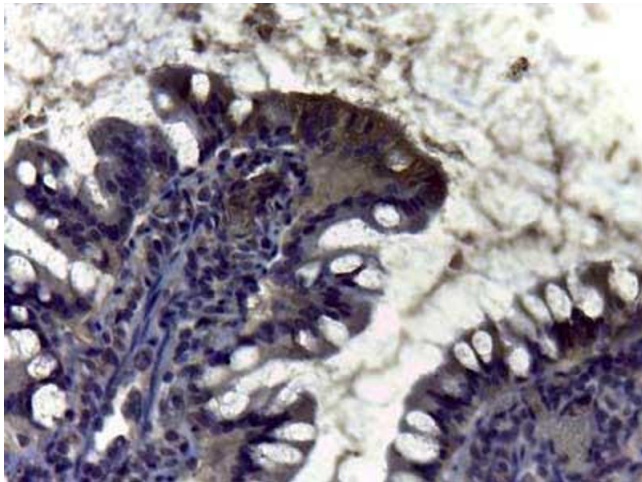
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Handling Advice:	Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store vial at -20 °C or below prior to opening. This vial contains a relatively low volume of

## Handling

reagent (25  $\mu$ L). To minimize loss of volume dilute 1:10 by adding 225  $\mu$ L 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.

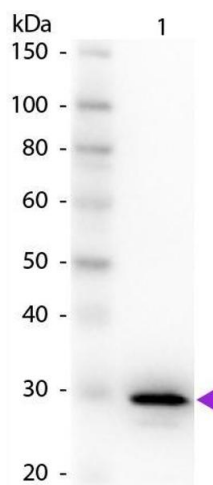
Expiry Date: Expiration date is one (1) year from date of opening.

## Images



### Immunohistochemistry

**Image 1.** Immunohistochemistry of Rabbit anti Carbonic Anhydrase II antibody Tissue: intestine Staining: diffuse positivity of enzyme Carbonic Anhydrase II in brush border of villus



### Western Blotting

**Image 2.** Western Blot of Rabbit anti-Carbonic Anhydrase II Primary Antibody. Lane 1: Carbonic Anhydrase II. Lane 2: None. Load: 50 ng per lane. Primary antibody: Carbonic Anhydrase II primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 28 kDa, 28 kDa for Alkaline Phosphatase. Other band(s): None.