

Datasheet for ABIN96021
anti-CA2 antibody

2 Images



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Overview

Quantity:	100 µg
Target:	CA2
Reactivity:	Cow
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Carbonic Anhydrase II Antibody
Immunogen:	Immunogen: Carbonic Anhydrase II [Bovine Erythrocytes] Immunogen Type: Native Protein
Isotype:	IgG
Cross-Reactivity (Details):	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].
Characteristics:	Synonyms: rabbit anti-Carbonic Anhydrase II Antibody, Carbonate dehydratase II antibody, Carbonic anhydrase 2 antibody, Carbonic anhydrase B antibody, Carbonic anhydrase C antibody, Carbonic anhydrase II antibody, Carbonic dehydratase antibody, CAC, CA-II
Purification:	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.

Target Details

Target:	CA2
Alternative Name:	CA2 (CA2 Products)
Background:	Background: 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.
Gene ID:	280740
NCBI Accession:	NP_848667
UniProt:	P00921

Application Details

Application Notes:	<p>Application Note: Anti-Carbonic Anhydrase II Antibody has been tested by Western blot and immunohistochemistry. This product is suitable to be assayed against 1.0 µg of Carbonic Anhydrase II [Bovine Erythrocytes] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) [code #611-1302] and TMBE [code # TMBE-1000] as a substrate for 30 minutes at room temperature.</p> <p>Western Blot Dilution: 1:2,000 - 1:10,000</p> <p>ELISA Dilution: 1:20,000 - 1:100,000</p>
Restrictions:	For Research Use only

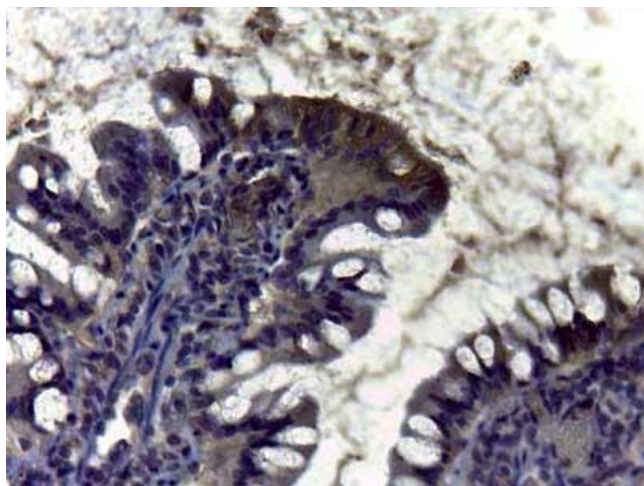
Handling

Format:	Lyophilized
Reconstitution:	<p>Reconstitution Volume: 100 µL</p> <p>Reconstitution Buffer: Restore with deionized water (or equivalent)</p>
Concentration:	1 mg/mL
Buffer:	<p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: None</p> <p>Preservative: 0.01 % (w/v) Sodium Azide</p>

Handling

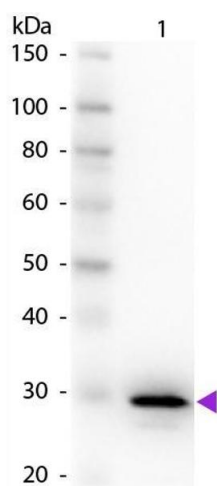
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° 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



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.