

Datasheet for ABIN5596909
anti-CA2 antibody (HRP)

2 Images

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Overview

Quantity:	100 µg
Target:	CA2
Reactivity:	Human, Cow
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 [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.
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 [Bovine Erythrocytes].

Target Details

Target:	CA2
Alternative Name:	Carbonic Anhydrase II (CA2 Products)
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 α 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:	280740
UniProt:	P00921

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 1:500 - 1:2,500</p> <p>Application Note: Anti-Carbonic anhydrase II has been assayed against 1.0 μg of Carbonic Anhydrase II [Bovine Erythrocytes] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:4,000 of the reconstitution concentration is suggested for this product.</p> <p>Western Blot Dilution: 1:1,000 - 1:5,000</p> <p>ELISA Dilution: 1:5,000 - 1:20,000</p>
Restrictions:	For Research Use only

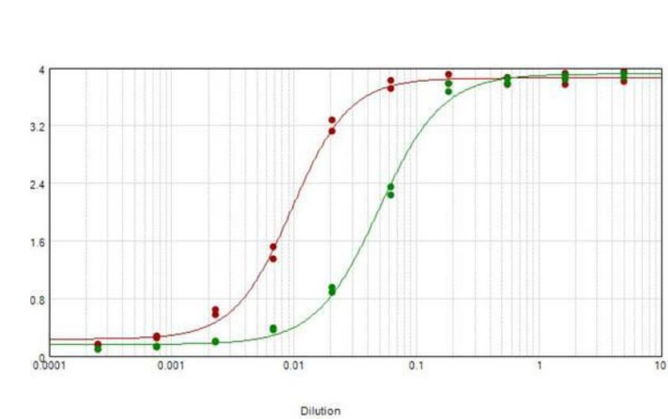
Handling

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: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free</p>
Preservative:	Gentamicin sulfate

Handling

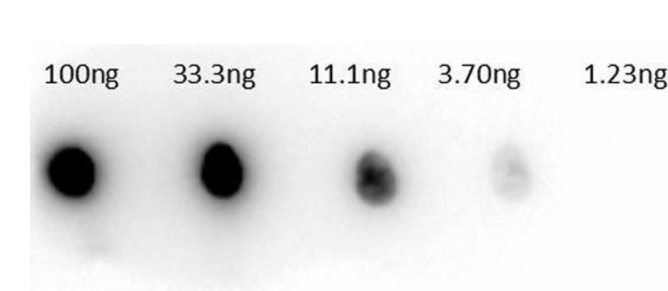
Precaution of Use:	This product contains Gentamicin sulfate: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles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



ELISA

Image 1. ELISA results of purified Rabbit Carbonic Anhydrase II Antibody tested against Carbonic Anhydrase II (erythrocytes). (Green line) The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using TMB-1000 substrate.



Dot Blot

Image 2. Dot Blot of Rabbit Anti-Carbonic Anhydrase II Peroxidase Conjugated Antibody. Lane 1: 100ng. Lane 2: 33.3ng. Lane 3: 11.1ng. Lane 4: 3.7ng. Lane 5: 1.23ng. Secondary Antibody: 200-4357 Anti-Carbonic Anhydrase II HRP 1µg/mL. Blocking Buffer: for 30 min at RT.