

Datasheet for ABIN96026

**anti-CA2 antibody****2** Images[Go to Product page](#)

## Overview

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

## Product Details

Immunogen:	Carbonic Anhydrase II Antibody was produced by repeated immunizations with human erythrocytes Carbonic Anhydrase II. 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 [Human Erythrocytes].
Endotoxin Level:	Low Endotoxin : No

## Target Details

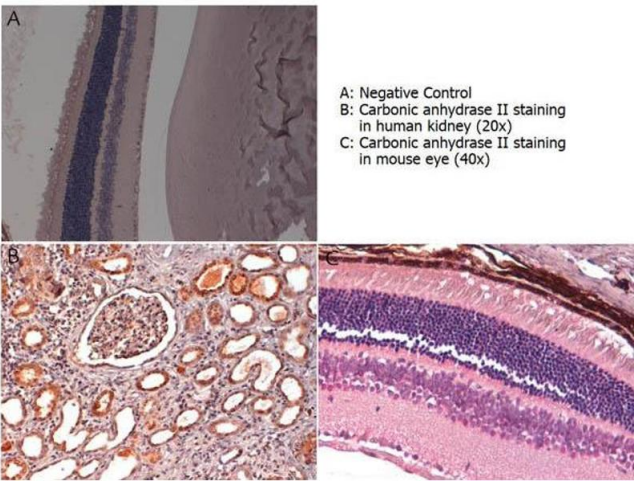
Target:	CA2
Alternative Name:	Carbonic Anhydrase II ( <a href="#">CA2 Products</a> )
Background:	Carbonic Anhydrase II Antibody detects Carbonic Anhydrase II. Carbonic Anhydrase II is essential for bone resorption and osteoclast differentiation by similarity. It can hydrate cyanamide to urea and is involved in the regulation of fluid secretion into the anterior chamber of the eye. Anti-Carbonic Anhydrase II Antibody is ideal for investigators involved in Cell Signaling, Neuroscience, Signal Transduction research. Synonyms: Carbonate dehydratase II antibody, Carbonic anhydrase 2 antibody, Carbonic anhydrase B antibody, Carbonic anhydrase C antibody, Carbonic anhydrase II antibody, Carbonic dehydratase antibody
Gene ID:	760
UniProt:	<a href="#">P00918</a>

## Application Details

Application Notes:	Carbonic Anhydrase II Antibody is suitable for western blotting, ELISA and IHC. Researchers should determine optimal titers for applications that are not stated below.  ELISA Dilution: 1:165.000  Western Blot Dilution: 1:2000 to 1:10.000
Restrictions:	For Research Use only

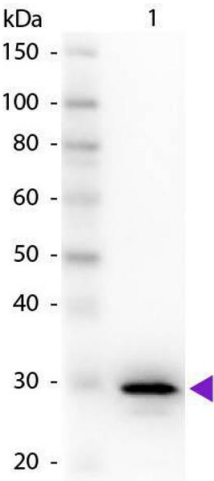
## Handling

Format:	Liquid
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 reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL 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.



### Immunohistochemistry

**Image 1.** Immunohistochemistry with anti-carbonic anhydrase II antibody showing carbonic anhydrase II staining in nucleus and cytoplasm of proximal and distal tubules, bowman's capsule and glomerular podocytes of human kidney (B) and in basal cells of retina of a mouse eye (C). Formalin fixed/paraffin embedded sections were subjected to heat induced epitope retrieval (HIER) at pH 6.2 and then incubated with rabbit anti-carbonic anhydrase II antibody at 4.0 µg/ml for 60 minutes. The reaction was developed using either MACH 1 universal HRP polymer detection (human kidney) or MACH 4 universal AP polymer detection system (mouse eye) and visualized with 3'3'-diamino-benzidine substrate (DAB) or WARP RED.



### 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. Blocking: ABIN925618 for 30 min at RT. Predicted/Observed size: 29 kDa, 29 kDa for Carbonic Anhydrase II. Other band(s): None.