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CA2 / Carbonic Anhydrase II Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11744

Specification

CA2 / Carbonic Anhydrase II Antibody - Product Information

Application	**IHC**
Primary Accession	P00918
Reactivity	**Human, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**29kDa KDa**

CA2 / Carbonic Anhydrase II Antibody - Additional Information

Gene ID 760

Other Names
Carbonic anhydrase 2, 4.2.1.1, Carbonate dehydratase II, Carbonic anhydrase C, CAC, Carbonic anhydrase II, CA-II, CA2

Target/Specificity
Carbonic Anhydrase II

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions
CA2 / Carbonic Anhydrase II Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CA2 / Carbonic Anhydrase II Antibody - Protein Information

Name CA2

Function
Catalyzes the reversible hydration of carbon dioxide (PubMed:1909891, PubMed:1910042, PubMed:1336460, PubMed:8485129, PubMed:8399159, PubMed:8218160, PubMed:8262987, PubMed:8451242, PubMed:7901850, PubMed:7761440, PubMed:8639494, PubMed:<a

href="http://www.uniprot.org/citations/9265618" target="_blank">9265618, PubMed:17330962, PubMed:9398308, PubMed:11327835, PubMed:12056894, PubMed:17346964, PubMed:12171926, PubMed:15453828, PubMed:16214338, PubMed:15865431, PubMed:16106378, PubMed:15300855, PubMed:15667203, PubMed:18942852, PubMed:11831900, PubMed:17251017, PubMed:17314045, PubMed:18618712, PubMed:1336460, PubMed:11802772, PubMed:14736236, PubMed:16290146, PubMed:16759856, PubMed:16807956, PubMed:16686544, PubMed:17705204, PubMed:17127057, PubMed:17540563, PubMed:17588751, PubMed:18266323, PubMed:18024029, PubMed:18162396, PubMed:18374572, PubMed:18640037, PubMed:18481843, PubMed:19170619, PubMed:19186056, PubMed:19206230, PubMed:19778001, PubMed:19520834). Can also hydrate cyanamide to urea (PubMed:10550681, PubMed:11015219). Stimulates the chloride-bicarbonate exchange activity of SLC26A6 (PubMed:15990874). Essential for bone resorption and osteoclast differentiation (PubMed:15300855). Involved in the regulation of fluid secretion into the anterior chamber of the eye. Contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton- coupled peptide absorption.

Cellular Location
Cytoplasm. Cell membrane. Note=Colocalized with SLC26A6 at the surface of the cell membrane in order to form a bicarbonate transport metabolon. Displaced from the cytosolic surface of the cell membrane by PKC in phorbol myristate acetate (PMA)-induced cells

Volume
50 µl

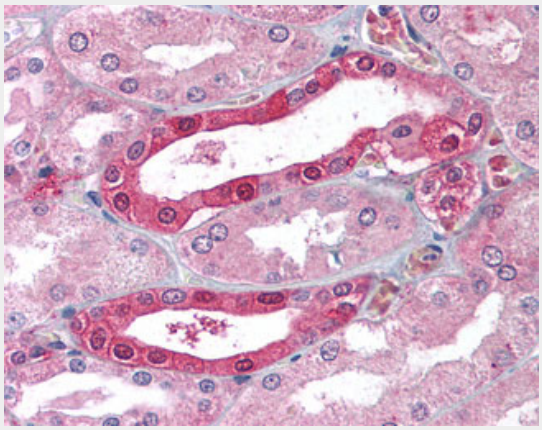
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CA2 / Carbonic Anhydrase II Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CA2 / Carbonic Anhydrase II Antibody - Images



Anti-Carbonic Anhydrase II antibody IHC of human kidney.

CA2 / Carbonic Anhydrase II Antibody - Background

Essential for bone resorption and osteoclast differentiation (By similarity). Reversible hydration of carbon dioxide. Can hydrate cyanamide to urea. Involved in the regulation of fluid secretion into the anterior chamber of the eye. Contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton-coupled peptide absorption. Stimulates the chloride-bicarbonate exchange activity of SLC26A6.

CA2 / Carbonic Anhydrase II Antibody - References

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Murakami H.,et al.Genomics 1:159-166(1987).
Halleck A.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.