

CA II Polyclonal Antibody
Catalog # AP68756**Specification****CA II Polyclonal Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	P00918
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal

CA II Polyclonal Antibody - Additional Information**Gene ID** 760**Other Names**

CA2; Carbonic anhydrase 2; Carbonate dehydratase II; Carbonic anhydrase C; CAC; Carbonic anhydrase II; CA-II

Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

IHC-P~~N/A

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

CA II Polyclonal Antibody - Protein Information**Name** CA2**Function**

Catalyzes the reversible hydration of carbon dioxide (PubMed:<[a href="http://www.uniprot.org/citations/11327835" target="_blank">11327835](http://www.uniprot.org/citations/11327835), PubMed:<[a href="http://www.uniprot.org/citations/11802772" target="_blank">11802772](http://www.uniprot.org/citations/11802772), PubMed:<[a href="http://www.uniprot.org/citations/11831900" target="_blank">11831900](http://www.uniprot.org/citations/11831900), PubMed:<[a href="http://www.uniprot.org/citations/12056894" target="_blank">12056894](http://www.uniprot.org/citations/12056894), PubMed:<[a href="http://www.uniprot.org/citations/12171926" target="_blank">12171926](http://www.uniprot.org/citations/12171926), PubMed:<[a href="http://www.uniprot.org/citations/1336460" target="_blank">1336460](http://www.uniprot.org/citations/1336460), PubMed:<[a href="http://www.uniprot.org/citations/14736236" target="_blank">14736236](http://www.uniprot.org/citations/14736236), PubMed:<[a href="http://www.uniprot.org/citations/15300855" target="_blank">15300855](http://www.uniprot.org/citations/15300855), PubMed:<[a href="http://www.uniprot.org/citations/15453828" target="_blank">15453828](http://www.uniprot.org/citations/15453828), PubMed:<[a href="http://www.uniprot.org/citations/15667203" target="_blank">15667203](http://www.uniprot.org/citations/15667203), PubMed:<[a href="http://www.uniprot.org/citations/15865431" target="_blank">15865431](http://www.uniprot.org/citations/15865431), PubMed:<[a href="http://www.uniprot.org/citations/16106378" target="_blank">16106378](http://www.uniprot.org/citations/16106378), PubMed:<

[16214338](http://www.uniprot.org/citations/16214338), PubMed: [16290146](http://www.uniprot.org/citations/16290146), PubMed: [16686544](http://www.uniprot.org/citations/16686544), PubMed: [16759856](http://www.uniprot.org/citations/16759856), PubMed: [16807956](http://www.uniprot.org/citations/16807956), PubMed: [17127057](http://www.uniprot.org/citations/17127057), PubMed: [17251017](http://www.uniprot.org/citations/17251017), PubMed: [17314045](http://www.uniprot.org/citations/17314045), PubMed: [17330962](http://www.uniprot.org/citations/17330962), PubMed: [17346964](http://www.uniprot.org/citations/17346964), PubMed: [17540563](http://www.uniprot.org/citations/17540563), PubMed: [17588751](http://www.uniprot.org/citations/17588751), PubMed: [17705204](http://www.uniprot.org/citations/17705204), PubMed: [18024029](http://www.uniprot.org/citations/18024029), PubMed: [18162396](http://www.uniprot.org/citations/18162396), PubMed: [18266323](http://www.uniprot.org/citations/18266323), PubMed: [18374572](http://www.uniprot.org/citations/18374572), PubMed: [18481843](http://www.uniprot.org/citations/18481843), PubMed: [18618712](http://www.uniprot.org/citations/18618712), PubMed: [18640037](http://www.uniprot.org/citations/18640037), PubMed: [18942852](http://www.uniprot.org/citations/18942852), PubMed: [1909891](http://www.uniprot.org/citations/1909891), PubMed: [1910042](http://www.uniprot.org/citations/1910042), PubMed: [19170619](http://www.uniprot.org/citations/19170619), PubMed: [19186056](http://www.uniprot.org/citations/19186056), PubMed: [19206230](http://www.uniprot.org/citations/19206230), PubMed: [19520834](http://www.uniprot.org/citations/19520834), PubMed: [19778001](http://www.uniprot.org/citations/19778001), PubMed: [7761440](http://www.uniprot.org/citations/7761440), PubMed: [7901850](http://www.uniprot.org/citations/7901850), PubMed: [8218160](http://www.uniprot.org/citations/8218160), PubMed: [8262987](http://www.uniprot.org/citations/8262987), PubMed: [8399159](http://www.uniprot.org/citations/8399159), PubMed: [8451242](http://www.uniprot.org/citations/8451242), PubMed: [8485129](http://www.uniprot.org/citations/8485129), PubMed: [8639494](http://www.uniprot.org/citations/8639494), PubMed: [9265618](http://www.uniprot.org/citations/9265618), PubMed: [9398308](http://www.uniprot.org/citations/9398308)). Can also hydrate cyanamide to urea (PubMed: [10550681](http://www.uniprot.org/citations/10550681), PubMed: [11015219](http://www.uniprot.org/citations/11015219)). Stimulates the chloride-bicarbonate exchange activity of SLC26A6 (PubMed: [15990874](http://www.uniprot.org/citations/15990874)). Essential for bone resorption and osteoclast differentiation (PubMed: [15300855](http://www.uniprot.org/citations/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

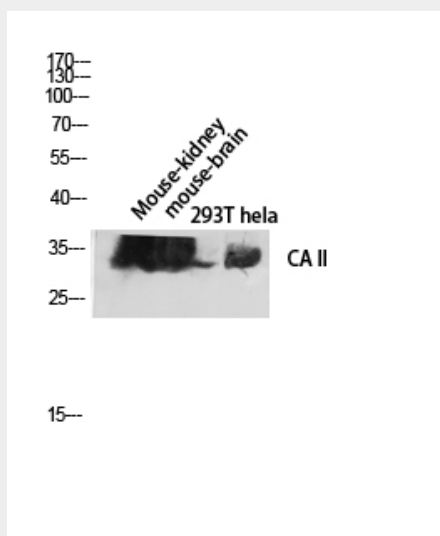
Cytoplasm. Cell membrane. Note=Colocalized with SLC26A6 at the surface of the cell membrane in order to form a bicarbonate transport metabolon. Displaced from the cytosolic surface of the cell membrane by PKC in phorbol myristate acetate (PMA)-induced cells

CA II Polyclonal 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 Cytometry](#)
- [Cell Culture](#)

CA II Polyclonal Antibody - Images



CA II Polyclonal 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.