

Carbonic anhydrase 2 Antibody
Rabbit mAb
Catalog # AP91406**Specification****Carbonic anhydrase 2 Antibody - Product Information**

Application	WB, IHC
Primary Accession	P00918
Reactivity	Rat
Clonality	Monoclonal
Other Names	
Carbonic anhydrase 2; Carbonate dehydratase II; Carbonic anhydrase C; CAC; Carbonic anhydrase II; CA-II; CA2;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	29246 Da

Carbonic anhydrase 2 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Carbonic anhydrase 2
Description	Essential for bone resorption and osteoclast differentiation (By similarity). Reversible hydration of carbon dioxide. Can hydrates cyanamide to urea. Involved in the regulation of fluid secretion into the anterior chamber of the eye.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Carbonic anhydrase 2 Antibody - Protein Information

Name CA2

Function

Catalyzes the reversible hydration of carbon dioxide (PubMed:[11327835](http://www.uniprot.org/citations/11327835)), PubMed:[11802772](http://www.uniprot.org/citations/11802772)), PubMed:[11831900](http://www.uniprot.org/citations/11831900)), PubMed:[12056894](http://www.uniprot.org/citations/12056894)), PubMed:[12171926](http://www.uniprot.org/citations/12171926)), PubMed:[1336460](http://www.uniprot.org/citations/1336460)), PubMed:[14736236](http://www.uniprot.org/citations/14736236)), PubMed:[15300855](http://www.uniprot.org/citations/15300855)), PubMed:[15300855](#))

href="http://www.uniprot.org/citations/15453828" target="_blank">15453828, PubMed:15667203, PubMed:15865431, PubMed:16106378, PubMed:16214338, PubMed:16290146, PubMed:16686544, PubMed:16759856, PubMed:16807956, PubMed:17127057, PubMed:17251017, PubMed:17314045, PubMed:17330962, PubMed:17346964, PubMed:17540563, PubMed:17588751, PubMed:17705204, PubMed:18024029, PubMed:18162396, PubMed:18266323, PubMed:18374572, PubMed:18481843, PubMed:18618712, PubMed:18640037, PubMed:18942852, PubMed:1909891, PubMed:1910042, PubMed:19170619, PubMed:19186056, PubMed:19206230, PubMed:19520834, PubMed:19778001, PubMed:7761440, PubMed:7901850, PubMed:8218160, PubMed:8262987, PubMed:8399159, PubMed:8451242, PubMed:8485129, PubMed:8639494, PubMed:9265618, PubMed:9398308). 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

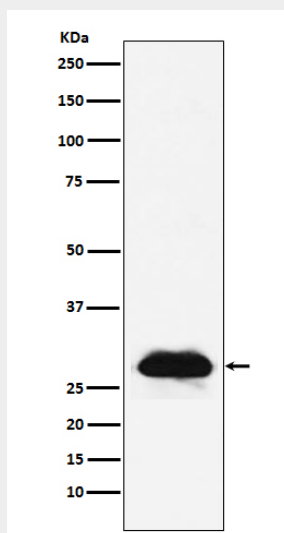
Cytoplasm. Cell membrane. Note=Colocalized with SLC26A6 at the surface of the cell membrane in order to form a bicarbonate transport metabolon. Displaced from the cytosolic surface of the cell membrane by PKC in phorbol myristate acetate (PMA)-induced cells

Carbonic anhydrase 2 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](#)

Carbonic anhydrase 2 Antibody - Images



Western blot analysis of Carbonic anhydrase 2 expression in A431 cell lysate.