

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

Dilution	WB~~1:1000 IHC~~1:100~500
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, PubMed:11802772, PubMed:11831900, PubMed:12056894, PubMed:12171926, PubMed:1336460, PubMed:<a

[14736236](http://www.uniprot.org/citations/14736236) PubMed: [15300855](http://www.uniprot.org/citations/15300855) PubMed: [15453828](http://www.uniprot.org/citations/15453828) PubMed: [15667203](http://www.uniprot.org/citations/15667203) PubMed: [15865431](http://www.uniprot.org/citations/15865431) PubMed: [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

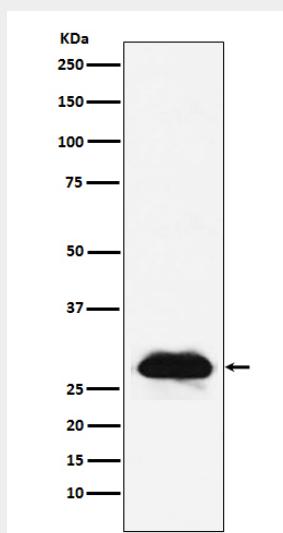
cell membrane by PKC in phorbol myristate acetate (PMA)-induced cells

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.