

Carbonic Anhydrase 2 Rabbit mAb

Catalog # AP77734

Product Information

Application	WB, IHC-P
Primary Accession	P00918
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	29246

Additional Information

Gene ID	760
Other Names	CA2
Dilution	WB~~1/500-1/1000 IHC-P~~N/A
Format	10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

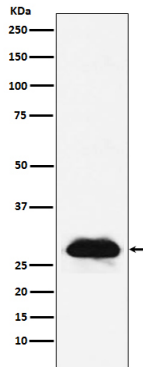
Name	CA2
Function	Catalyzes the reversible hydration of carbon dioxide (PubMed: 11327835 , PubMed: 11802772 , PubMed: 11831900 , PubMed: 12056894 , PubMed: 12171926 , PubMed: 1336460 , PubMed: 14736236 , PubMed: 15300855 , PubMed: 15453828 , PubMed: 15667203 , PubMed: 15865431 , PubMed: 16106378 , PubMed: 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

Images



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