

KD-Validated Anti-Carbonic anhydrase II Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1195

Product Information

Application	WB, FC, ICC
Primary Accession	P00918
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 3300
Calculated MW	29246
Gene Name	CA2
Aliases	CA2; Carbonic Anhydrase 2; CA-II; Carbonic Anhydrase II; CAII; Carbonate Dehydratase II; Cyanamide Hydratase CA2; Carbonic Anhydrase C; EC 4.2.1.1; Car2; CAC; Epididymis Secretory Protein Li 282; Epididymis Luminal Protein 76; Carbonic Anhydrase B; Carbonic Dehydratase; EC 4.2.1.69; HEL-S-282; HEL-76; CAR2
Immunogen	A synthesized peptide derived from human Carbonic anhydrase 2

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, Cyanamide hydratase CA2, 4.2.1.69, CA2

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

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