

Product datasheet for **AP08499HR-N**

Carbonic Anhydrase II (CA2) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA: 1/1000 - 1/6000. Immunohistochemistry on Paraffin Sections: 5 µg/ml. Western Blot.
Reactivity:	Human, Rabbit
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Carbonic Anhydrase II (Human Erythrocytes).
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti Rabbit serum, as well as purified and partially purified Carbonic Anhydrase II (Human Erythrocytes).
Formulation:	PBS, pH 7.2 containing 0.01% Gentamicin Sulfate as preservative and 10 mg/ml BSA as stabilizer, before the addition of Glycerol to 40% Label: HRP State: Liquid purified Ig fraction. Label: Horseradish Peroxidase
Concentration:	lot specific
Purification:	Ion Exchange Chromatography.
Conjugation:	HRP
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	carbonic anhydrase 2
Database Link:	Entrez Gene 760 Human P00918



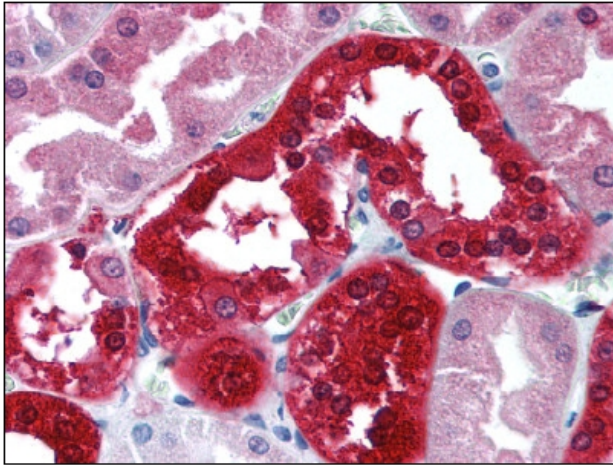
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Background:

Carbonic anhydrase II (CAII) is a single polypeptide chain of molecular weight 29kDa. It is present in the cytosol of most tissues, but highest concentrations are found, like Carbonic Anhydrase I, in erythrocytes. The concentration in erythrocytes is about 20 μ M. It catalyses the hydration of CO₂ and the hydrolysis of esters. Zn²⁺ ion cofactor is required for enzyme activity. Certain point mutations occur without apparent clinical effect, however, complete absence leads to mild mental retardation and cerebral calcification, osteoporosis and renal tubular acidosis.

Synonyms:

Carbonic anhydrase II, Carbonate dehydratase II, Carbonic anhydrase C, CA2, CA-II, CAC

Product images:

Kidney: Formalin-Fixed Paraffin-Embedded (FFPE)