

**AP08499HR-N****Polyclonal Antibody to Carbonic anhydrase 2 - HRP**

<b>Alternate names:</b>	CA-II, CA2, CAC, Carbonate dehydratase II, Carbonic anhydrase C, Carbonic anhydrase II
<b>Quantity:</b>	50 µg
<b>Concentration:</b>	10 mg/ml
<b>Background:</b>	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 20µM. It catalyses the hydration of CO <sub>2</sub> and the hydrolysis of esters. Zn <sup>2+</sup> 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.
<b>Uniprot ID:</b>	<a href="#">P00918</a>
<b>NCBI:</b>	<a href="#">NP_000058.1</a>
<b>GeneID:</b>	<a href="#">760</a>
<b>Host / Isotype:</b>	Rabbit / IgG
<b>Immunogen:</b>	Carbonic Anhydrase II (Human Erythrocytes).
<b>Format:</b>	<b>State:</b> Liquid purified Ig fraction. <b>Purification:</b> Ion Exchange Chromatography. <b>Buffer System:</b> 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% <b>Label:</b> HRP – Horseradish Peroxidase
<b>Applications:</b>	<b>ELISA:</b> 1/1000 - 1/6000. <b>Immunohistochemistry on Paraffin Sections:</b> 5 µg/ml. <b>Western Blot.</b> Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	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).
<b>Species Reactivity:</b>	<b>Tested:</b> Human. <b>Expected from sequence similarity:</b> Rabbit.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Pictures:**

Kidney: Formalin-Fixed Paraffin-Embedded (FFPE)

