

Product datasheet for **R1069HRPS**

CA2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	Western blot: 1/1,000-1/5,000 ELISA: 1/5,000-1/20,000 This product has been assayed against 1.0 µg of Carbonic anhydrase 2 from bovine erythrocytes in a standard capture ELISA using ABTS as a substrate for 30 minutes at room temperature. A working dilution of 1/1,000 to 1/4,000 of the reconstitution concentration is suggested. Immunohistochemistry: Paraffin (FFPE) or Frozen sections; 1/100 suggested to begin.
Reactivity:	Bovine, Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Carbonic anhydrase 2 from bovine erythrocytes
Specificity:	This antibody detects Carbonic anhydrase 2. Immunoelectrophoresis give a single precipitin arc against anti-peroxidase, anti-rabbit serum as well as purified and partially purified Carbonic anhydrase 2 [bovine erythrocytes].
Formulation:	0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2 Label: HRP State: Purified State: Lyophilized Ig fraction Stabilizer: 10 mg/ml BSA (immunoglobulin and protease free) Preservative: 0.01% (w/v) Gentamicin sulfate (Do NOT add Sodium azide!) Label: Horseradish peroxidase
Reconstitution Method:	Restore with 0.1 ml of deionized water (or equivalent).
Concentration:	lot specific
Purification:	Delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer
Conjugation:	HRP



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Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 280740 Bovine P00921
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 20µM. It catalyses the hydration of CO ₂ and the hydrolysis of esters. Zn ²⁺ 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