

Product datasheet for **SP1126P**

Carbonic Anhydrase II (CA2) Sheep Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ID, WB
Recommended Dilution:	Western Blot: 1/1000. Immunodiffusion.
Reactivity:	Human
Host:	Sheep
Clonality:	Polyclonal
Immunogen:	Purified human carbonic anhydrase II (CAII) prepared from erythrocytes.
Specificity:	Product identity is confirmed by double diffusion vs CAII. No reactivity is seen in immunodiffusion against CAI.
Formulation:	Glycine buffered saline pH7.4 containing 0.09% Sodium Azide, 0.1% EACA, 1mM EDTA and 0.01% Benzamidine State: Purified State: Liquid purified IgG
Purification:	Ion exchange chromatography
Conjugation:	Unconjugated
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
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.



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