

Product datasheet for **R1067BS**

Carbonic Anhydrase I (CA1) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	Western blot: 1/2,000-1/10,000. ELISA: 1/20,000-1/100,000.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Carbonic Anhydrase I from Human erythrocytes
Specificity:	This product detects human Carbonic anhydrase I. Cross reactivity against Carbonic anhydrase I from other tissues and species may occur but have not been specifically determined. Immunoelectrophoresis give a single precipitin arc against anti-biotin, anti-goat serum as well as purified and partially purified Carbonic anhydrase I [Human Erythrocytes].
Formulation:	0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2 Label: Biotin State: Purified State: Lyophilized purified Ig fraction Stabilizer: 10 mg/ml BSA (immunoglobulin and protease free) Preservative: 0.01% (w/v) sodium azide
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:	Biotin
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.



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Stability:	Shelf life: one year from despatch.
Gene Name:	carbonic anhydrase 1
Database Link:	Entrez Gene 759 Human P00915
Background:	Carbonic Anhydrase I (CAI) is a single polypeptide chain metalloenzyme of molecular weight 29 kDa. It is present mainly in erythrocytes at a concentration of about 12 mg per gram haemoglobin. Its main enzyme function is to catalyse the reversible hydration of carbon dioxide. It also catalyses the hydrolysis of certain esters. The twelve active CA isozymes are thought to regulate a variety of cellular functions including several processes in the reproductive systems. A mutational deficiency has been described but patients exhibit no adverse chemical symptoms. Red cell CAI levels are decreased in patients with thyrotoxicosis.
Synonyms:	Carbonic anhydrase I, Carbonate dehydratase I, Carbonic anhydrase B, CA1, CAB, CA-I