

Product datasheet for R1067

Carbonic Anhydrase I (CA1) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	Suitable for immunoblotting (western or dot blot), ELISA, immunoprecipitation and most immunological methods requiring high titer and specificity. This product has been assayed against 1.0 ug of Carbonic Anhydrase I [Human Erythrocytes] in a standard sandwich ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) and (ABTS (2,2'-azino-bis-[3-ethylbenthiiazoline-6-sulfonic acid]) as a substrate for 30 minutes at room temperature. A working dilution of 1:1,000 to 1:5,000 is suggested for this product.
Reactivity:	Human
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Carbonic Anhydrase I [Human Erythrocytes]
Specificity:	Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Carbonic Anhydrase I [Human Erythrocytes]. Cross reactivity against Carbonic Anhydrase I from other tissues and species may occur but have not been specifically determined.
Formulation:	0.01 M Sodium Phosphate, 0.14 M Sodium Chloride, pH 7.4, with 0.01% sodium azide as preservative. State: Serum State: Lyophilized
Reconstitution Method:	Restore with 2.0 ml of deionized water (or equivalent).
Concentration:	lot specific
Purification:	This product was prepared from monospecific antiserum by a delipidation and defibrination.
Conjugation:	Unconjugated



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Storage:	Store vial at 4° C prior to restoration. Restore with deionized water or equivalent; centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing.
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