

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody
Carbonic Anhydrase I Antibody
Catalog # ASR4071**Specification**

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody - Product Information

Host	Goat
Conjugate	Unconjugated
Target Species	Human
Reactivity	Human
Clonality	Polyclonal
Application	WB, IHC, E, I, LCI
Application Note	Anti-Carbonic Anhydrase 1 has been tested in western blot and immunohistochemistry and is suitable in ELISA. Specific conditions for reactivity should be optimized by the end user.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Carbonic Anhydrase I [Human Erythrocytes]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Preservative	0.01% (w/v) Sodium Azide

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody - Additional Information**Gene ID** 759**Other Names**
759**Purity**

Anti-CARBONIC ANHYDRASE I is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as 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.

Storage Condition

Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. 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.

Precautions Note

This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody - Protein Information

Name CA1

Function

Catalyzes the reversible hydration of carbon dioxide (PubMed:10550681, PubMed:16506782, PubMed:16686544, PubMed:16807956, PubMed:17127057, PubMed:17314045, PubMed:17407288, PubMed:18618712, PubMed:19186056, PubMed:19206230). Can hydrate cyanamide to urea (PubMed:10550681).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:B0BNN3}.

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody - Images

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody - Background

Carbonic Anhydrase 1 reverses hydration of carbon dioxide and can hydrate cyanamide to urea. Carbonic Anhydrase I is activated by histamine, imidazole, L-adrenaline, L- and D-histidine, and L- and D-phenylalanine. It is inhibited by coumarins, sulfonamide derivatives such as acetazolamide, benzenesulfonamide and derivatives (4-carboxyethylbenzene-sulfonamide, 4-carboxyethylbenzene-sulfonamide ethyl ester, 4-(acetyl-2-aminoethyl)benzene-sulfonamide, 4-aminoethylbenzene-sulfonamide), and 'prong inhibitors' BR15, BR17, BR22 and BR30. It is activated by a short exposition to Foscarnet (phosphonoformate trisodium salt), but inhibited by a long one. Esterase activity is weakly reduced by cyanamide.