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Anti-CARBONIC ANHYDRASE I (GOAT) Antibody Biotin Conjugated

Carbonic Anhydrase I Antibody Biotin Conjugated
Catalog # ASR4111

Specification

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

Host	**Goat**
Conjugate	**Biotin**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**Anti-Carbonic anhydrase I Biotin Antibody has been tested by ELISA and western blot. This product is assayed against 1.0 ug of Carbonic Anhydrase I in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:4,000 to 1:20,000 of the reconstitution concentration is suggested for this product. Specific conditions should be optimized by researcher.**
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)**
Stabilizer	**10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody Biotin Conjugated - Additional Information

Gene ID 759

Other Names
759

Purity
Anti-CARBONIC ANHYDRASE I (GOAT) Antibody 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-Biotin, anti-Goat Serum as well as purified and partially purified Carbonic Anhydrase I [Human Erythrocytes]. Cross reactivity against Carbonic Anhydrase I from other sources may occur but has 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 Biotin Conjugated - 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 Biotin Conjugated - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody Biotin Conjugated - Images

Anti-CARBONIC ANHYDRASE I (GOAT) Antibody Biotin Conjugated - Background

Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible

hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. Carbonic Anhydrase 1 (CA1) is closely related to Carbonic Anhydrase 2 (CA2) and Carbonic Anhydrase 3 (CA3), and it is a cytosolic protein that is found at the highest level in erythrocytes. Anti-Carbonic anhydrase I antibody is ideal for investigators involved in serum protein components.