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Anti-CARBONIC ANHYDRASE II (RABBIT) Antibody Biotin Conjugated

Carbonic Anhydrase II Antibody Biotin Conjugated
Catalog # ASR4541

Specification

Anti-CARBONIC ANHYDRASE II (RABBIT) Antibody Biotin Conjugated - Product Information

Host	**Rabbit**
Conjugate	**Biotin**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, E, I, LCI**
Application Note	**Anti-Carbonic Anhydrase II Biotin Antibody has been tested by ELISA and western blot and is assayed against 1.0 ug of Carbonic Anhydrase II in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 and ABTS (2,2'-azino-bis-[3-ethyl benthiazoline-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.**
Physical State	**Lyophilized**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Carbonic Anhydrase II [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 II (RABBIT) Antibody Biotin Conjugated - Additional Information

Gene ID 760

Other Names
760

Purity
Anti-Carbonic Anhydrase II 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-Rabbit Serum as

well as purified and partially purified Carbonic Anhydrase II [Human Erythrocytes]. Cross reactivity against Carbonic Anhydrase II 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 II (RABBIT) Antibody Biotin Conjugated - Protein Information

Name CA2

Function
Catalyzes the reversible hydration of carbon dioxide (PubMed:<a
href="http://www.uniprot.org/citations/11327835" target="_blank">11327835, PubMed:<a
href="http://www.uniprot.org/citations/11802772" target="_blank">11802772, PubMed:<a
href="http://www.uniprot.org/citations/11831900" target="_blank">11831900, PubMed:<a
href="http://www.uniprot.org/citations/12056894" target="_blank">12056894, PubMed:<a
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href="http://www.uniprot.org/citations/18942852" target="_blank">18942852, PubMed:<a
href="http://www.uniprot.org/citations/1909891" target="_blank">1909891, PubMed:<a
href="http://www.uniprot.org/citations/1910042" target="_blank">1910042, PubMed:<a
href="http://www.uniprot.org/citations/19170619" target="_blank">19170619, PubMed:<a

href="http://www.uniprot.org/citations/19186056" target="_blank">19186056, PubMed:19206230, PubMed:19520834, PubMed:19778001, PubMed:7761440, PubMed:7901850, PubMed:8218160, PubMed:8262987, PubMed:8399159, PubMed:8451242, PubMed:8485129, PubMed:8639494, PubMed:9265618, PubMed:9398308). Can also hydrate cyanamide to urea (PubMed:10550681, PubMed:11015219). Stimulates the chloride-bicarbonate exchange activity of SLC26A6 (PubMed:15990874). Essential for bone resorption and osteoclast differentiation (PubMed:15300855). Involved in the regulation of fluid secretion into the anterior chamber of the eye. Contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton-coupled peptide absorption.

Cellular Location
Cytoplasm. Cell membrane. Note=Colocalized with SLC26A6 at the surface of the cell membrane in order to form a bicarbonate transport metabolon. Displaced from the cytosolic surface of the cell membrane by PKC in phorbol myristate acetate (PMA)-induced cells

Anti-CARBONIC ANHYDRASE II (RABBIT) 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 II (RABBIT) Antibody Biotin Conjugated - Images

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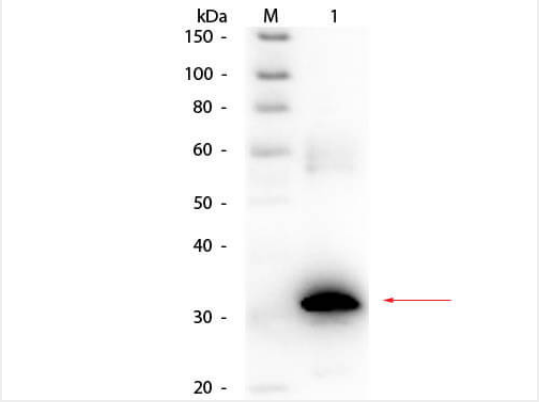

Western Blot of Rabbit anti-Carbonic Anhydrase II Antibody Biotin Conjugated. Lane 1: Carbonic Anhydrase II. Load: 50 ng per lane. Primary antibody: Rabbit anti-Carbonic Anhydrase II Antibody Biotin Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: HRP streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 29 kDa, 32 kDa for Carbonic Anhydrase II.

Anti-CARBONIC ANHYDRASE II (RABBIT) Antibody Biotin Conjugated - Background

Anti-Carbonic Anhydrase II antibody is necessary for bone resorption and osteoclast differentiation and is involved in the reversible hydration of carbon dioxide. It plays a role in the modulating of fluid secretion into the anterior chamber of the eye. Belonging to the alpha-carbonic anhydrase family, Anti-Carbonic Anhydrase II antibody is ideal for investigators involved in the areas of Cardiovascular and Cell Biology research.