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Datasheet for 200-406-136

Carbonic Anhydrase II Antibody Biotin Conjugated

Overview

Description:	Anti-Carbonic Anhydrase II (RABBIT) Antibody Biotin Conjugated (BULK ORDER) - 200-406-136
Item No.:	200-406-136
Size:	10 mg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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.
Synonyms:	rabbit anti-Carbonic Anhydrase II Antibody biotin Conjugation, biotin conjugated rabbit anti-Carbonic Anhydrase II Antibody, Carbonate dehydratase II antibody, Carbonic anhydrase 2 antibody, Carbonic anhydrase B antibody, Carbonic anhydrase C antibody, Carbonic anhydrase II antibody, Carbonic dehydratase antibody, CAC, CA-II
Host Species:	Rabbit
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CA2
Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	Carbonic Anhydrase II [Human Erythrocytes]

Purity/Specificity:	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.
Relevant Links:	• UniProtKB - P00918 • NCBI - NP_000058.1 • GeneID - 760

Application Details

Tested Applications:	ELISA, WB
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-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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
WB:	1:2,000 - 1:10,000

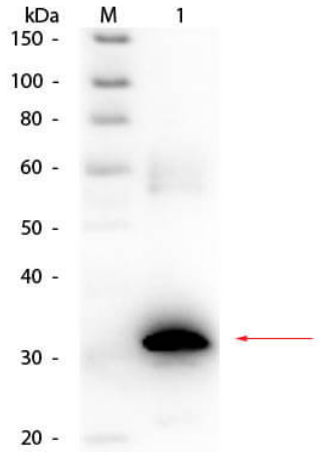
Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
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.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.