

Datasheet for 200-4657S**Carbonic Anhydrase II Antibody Biotin Conjugated****Overview**

Description:	Anti-Carbonic Anhydrase II (RABBIT) Antibody Biotin Conjugated - 200-4657S
Item No.:	200-4657S
Size:	25 µL
Applications:	ELISA
Reactivity:	Bovine
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. 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:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Carbonic Anhydrase II [Bovine 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 [Bovine Erythrocytes]. Cross reactivity against Carbonic Anhydrase II from other sources may occur but has not been specifically determined.

Relevant Links:

- [UniProtKB - P00921](#)
- [NCBI - NP_848667.1](#)
- [GeneID - 280740](#)

Application Details

Tested Applications: ELISA

Application Note: Anti-Carbonic Anhydrase II Biotin Conjugated Antibody has been tested 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: 1:2,000 - 1:10,000

WB: 1:200 - 1:1,000

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 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

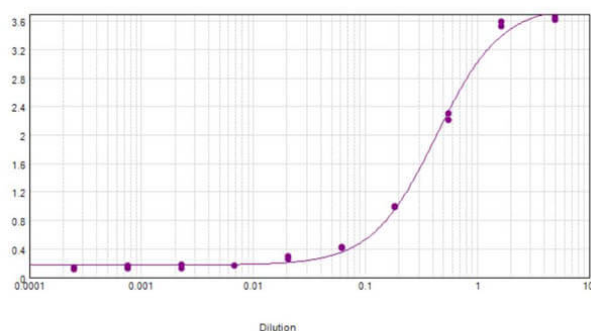
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

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

Images



ELISA

ELISA results of purified Rabbit Anti-CARBONIC ANHYDRASE II Biotin Conjugated Antibody tested against Carbonic Anhydrase II. Each well was coated in duplicate with 1.0 µg of Carbonic Anhydrase II. The starting dilution of antibody was 5µg/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using Blocking buffer MB-060-1000, Streptavidin HRP conjugate, and TMB-1000 substrate.

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.