

Datasheet for 200-1354-0100**Carbonic Anhydrase I Antibody Peroxidase Conjugated****Overview**

Description:	Anti-Carbonic Anhydrase I (GOAT) Antibody Peroxidase Conjugated - 200-1354-0100
Item No.:	200-1354-0100
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Goat

Product Details

Background:	Carbonic Anhydrase I is an enzyme that in humans is encoded by the CA1 gene. Carbonic anhydrases are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including cellular respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid.
Synonyms:	goat anti-Carbonic Anhydrase I Antibody HRP Conjugation, Peroxidase Conjugated goat anti-Carbonic Anhydrase I Antibody, Car1 antibody, Carbonate dehydratase I antibody, Carbonic anhydrase 1 antibody, Carbonic anhydrase B antibody, Carbonic dehydratase antibody, ECK0125 antibody, yadF antibody
Host Species:	Goat
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CA1
Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	Carbonic Anhydrase I [Human Erythrocytes]

Purity/Specificity: 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-Peroxidase, 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.

Relevant Links:

- [UniProtKB - P00915](#)
- [NCBI - NP_001122301.1](#)
- [GeneID - 759](#)

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Carbonic Anhydrase I peroxidase is tested by ELISA and western blot and useful in immunohistochemistry. Optimal titers should be obtained by researchers.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IHC:	1:500 - 1:2,500
WB:	1:1,000 - 1:5,000

Formulation

Physical State:	Lyophilized
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) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

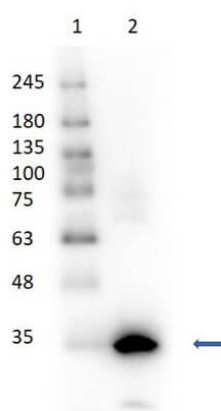
Shipping & Handling

Shipping Condition:	Ambient
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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 Goat Anti-Carbonic Anhydrase I Antibody Peroxidase Conjugated. Lane 1: Opal Prestained Molecular Weight (p/n MB-210-0500). Lane 2: Carbonic Anhydrase I [10µg]. Primary antibody: Anti-Carbonic Anhydrase I HRP Antibody at 1:1000 for 1 hr at RT. Secondary antibody: Streptavidin-HRP antibody (p/n S000-03) at 1:40,000 for 30mins at RT. Block: BlockOut (p/n MB-073). Predicted/Observed size: ~29kDa.

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.