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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Datasheet for 100-401-136

Carbonic Anhydrase II Antibody

Overview

| | |
|----------------------|--|
| Description: | Anti-Carbonic Anhydrase II (RABBIT) Antibody - 100-401-136 |
| Item No.: | 100-401-136 |
| Size: | 2 mL |
| Applications: | IF, IHC, Multiplex, WB |
| Reactivity: | Human |
| Host Species: | Rabbit |

Product Details

| | |
|----------------------|--|
| Background: | Carbonic Anhydrase 2 is essential for bone resorption and osteoclast differentiation. It reverses hydration of carbon dioxide and can hydrate cyanamide to urea. It is involved in the regulation of fluid secretion into the anterior chamber of the eye. Carbonic Anhydrase II contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton-coupled peptide absorption. It stimulates the chloride-bicarbonate exchange activity of SLC26A6. It is used for target of drugs used in treatments against glaucoma disorder and breast cancer. |
| Synonyms: | 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 |
| Host Species: | Rabbit |
| Clonality: | Polyclonal |
| Format: | Antiserum |

Target Details

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

Purity/Specificity: This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Carbonic Anhydrase II [Human Erythrocytes]. Cross reactivity against Carbonic Anhydrase II from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P00918](#)
- [NCBI - NP_000058.1](#)
- [GeneID - 760](#)

Application Details

| | |
|--------------------------------|--|
| Suggested Applications: | IF, IHC, Multiplex, WB (Based on references) |
| Application Note: | Anti-Carbonic Anhydrase II is suitable for use in ELISA, western blot, and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. |
| Assay Dilutions: | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| ELISA: | 1:115,000 |
| IHC: | User Optimized |
| WB: | 1:2,000 - 1:10,000 |

Formulation

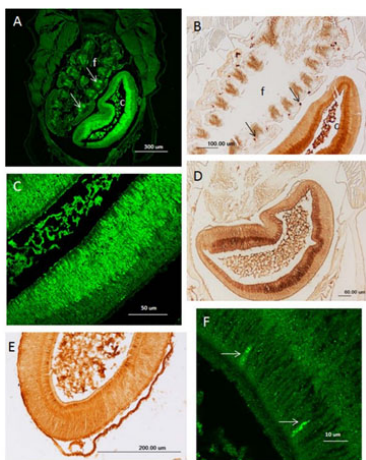
| | |
|-------------------------------|--|
| Physical State: | Lyophilized |
| Concentration: | 80 mg/mL by Refractometry |
| Buffer: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Preservative: | 0.01% (w/v) Sodium Azide |
| Stabilizer: | None |
| Reconstitution Volume: | 2.0 mL |
| Reconstitution Buffer: | Restore with deionized water (or equivalent) |

Shipping & Handling

Shipping Condition: Ambient

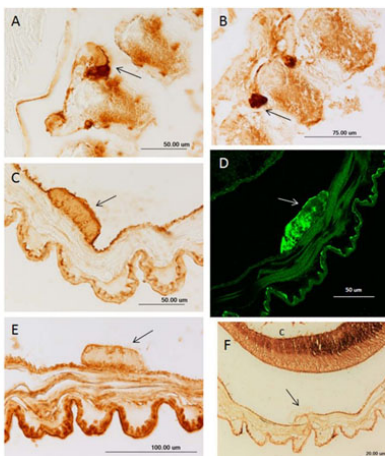
| | |
|---------------------------|---|
| Storage Condition: | Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product 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



Immunohistochemistry

Immunohistochemistry results using Anti-Carbonic Anhydrase II (RABBIT) Antibody. Transverse sections of *Branchiostoma floridae*: Strong immunopositivity to NHE (A) and to V-H+-ATPase (B) in luminal board of hepatic coecum (c), the arrows indicate the positive nephridia cells in pharinx (f); immunoreactivity to CFTR (C) and to pendrin (D) in the luminal board of coecum; (E) immunopositivity to CAII in terminal gut cells; (F) the arrows indicate two cells intensely positive to CAII at the luminal board of terminal gut. Fig 2. PMID: 29169695.



Immunohistochemistry

Immunohistochemistry results using Anti-Carbonic Anhydrase II (RABBIT) Antibody. Transverse sections of *Branchiostoma floridae*; excretory tubules intensely immunopositive to CFTR (A) and to CAII (B); (C) renal papilla immunopositive to NHE, (D) to CFTR, (E) to CAII; (F) the arrow indicates a renal papilla negative to pendrin. Fig 3. PMID: 29169695.

References

- Kwan GT et al. Immunological characterization of two types of ionocytes in the inner ear epithelium of Pacific Chub Mackerel (*Scomber japonicus*). *J Comp Physiol B*. (2020)
- Cuoghi I et al. Immunohistochemical analysis of the distribution of molecules involved in ionic and pH regulation in the lancelet *Branchiostoma floridae* (Hubbs, 1922). *Acta Histochem*. (2018)

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.