

ARG42100 anti-CA12 / Carbonic Anhydrase 12 antibody

Package: 50 µg
Store at: -20°C

Summary

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| Product Description | Goat Polyclonal antibody recognizes CA12 / Carbonic Anhydrase 12 |
| Tested Reactivity | Hu |
| Tested Application | IHC-P, WB |
| Specificity | This antibody is expected to recognize all reported isoforms (NP_001209.1; NP_996808.1; NP_001280571.1). |
| Host | Goat |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | CA12 / Carbonic Anhydrase 12 |
| Species | Human |
| Immunogen | Synthetic peptide around the internal region of Human CA12. (C-SHLQHVKYKGQE) (NP_001209.1; NP_996808.1; NP_001280571.1) |
| Conjugation | Un-conjugated |
| Alternate Names | Carbonic anhydrase 12; Tumor antigen HOM-RCC-3.1.3; EC 4.2.1.1; HsT18816; Carbonic anhydrase XII; CAXII; CA-XII; Carbonate dehydratase XII |

Application Instructions

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| Application table | Application | Dilution |
| | IHC-P | 5 - 10 µg/ml |
| | WB | 0.3 - 1 µg/ml |
| Application Note | WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Human kidney | |
| Observed Size | ~ 40 kDa | |

Properties

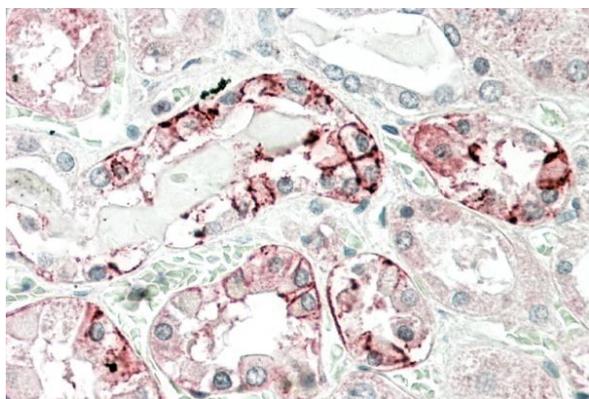
| | |
|--------------|--|
| Form | Liquid |
| Purification | Affinity purified |
| Buffer | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 0.5% BSA |

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| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

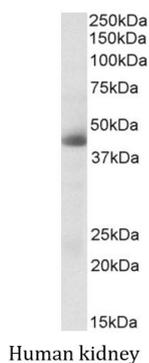
| | |
|-----------------------|---|
| Gene Symbol | CA12 |
| Gene Full Name | carbonic anhydrase XII |
| Background | Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. This gene product is a type I membrane protein that is highly expressed in normal tissues, such as kidney, colon and pancreas, and has been found to be overexpressed in 10% of clear cell renal carcinomas. Three transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2014] |
| Function | Reversible hydration of carbon dioxide. [UniProt] |
| Calculated Mw | 39 kDa |
| Cellular Localization | Membrane; Single-pass type I membrane protein. [UniProt] |

Images



ARG42100 anti-CA12 / Carbonic Anhydrase 12 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG42100 anti-CA12 / Carbonic Anhydrase 12 antibody at 5 µg/ml dilution.



ARG42100 anti-CA12 / Carbonic Anhydrase 12 antibody WB image

Western blot: 35 µg of Human kidney lysate (in RIPA buffer) stained with ARG42100 anti-CA12 / Carbonic Anhydrase 12 antibody at 0.3 µg/ml dilution and incubated at RT for 1 hour.