

## ARG42103 anti-CA12 / Carbonic Anhydrase 12 antibody (Biotin)

Package: 50 µg  
Store at: 4°C

### Summary

Product Description	Biotin-conjugated Goat Polyclonal antibody recognizes CA12 / Carbonic Anhydrase 12
Tested Reactivity	Hu
Tested Application	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-SHLQHVYKYGQE) (NP_001209.1; NP_996808.1; NP_001280571.1)
Conjugation	Biotin
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

Application table	Application	Dilution
	WB	0.1 - 0.3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human kidney	
Observed Size	~ 42 kDa	

### Properties

Form	Liquid
Purification	Ammonium sulphate precipitation followed by affinity purification with immunogen.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml

**Storage instruction** Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

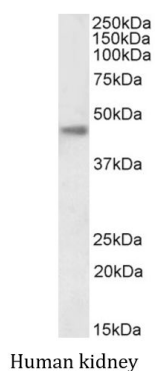
**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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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



ARG42103 anti-CA12 / Carbonic Anhydrase 12 antibody (Biotin) WB image

Western blot: 35 µg of Human kidney lysate (in RIPA buffer) stained with ARG42103 anti-CA12 / Carbonic Anhydrase 12 antibody (Biotin) at 0.1 µg/ml dilution and incubated at RT for 1 hour.