

Product datasheet

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ARG43164 anti-CA2 / Carbonic Anhydrase 2 antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes CA2 / Carbonic Anhydrase 2

Tested Reactivity Hu, Ms, Rat
Tested Application IHC-P, WB
Host Rabbit
Clonality Polyclonal

Isotype IgG

Target Name CA2 / Carbonic Anhydrase 2

Species Human

Immunogen Synthetic peptide derived from Human CA2 / Carbonic Anhydrase 2.

Conjugation Un-conjugated

Alternate Names Carbonic anhydrase C; EC 4.2.1.1; Car2; Carbonate dehydratase II; CA-II; Carbonic anhydrase II; CAC;

HEL-76; Carbonic anhydrase 2; CAII

Application Instructions

Application table	Application	Dilution
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293T	
Observed Size	~ 29 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide, 50% Glycerol and 0.05% BSA.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol and 0.05% BSA

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. 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 CA2

Gene Full Name carbonic anhydrase II

Background The protein encoded by this gene is one of several isozymes of carbonic anhydrase, which catalyzes

reversible hydration of carbon dioxide. Defects in this enzyme are associated with osteopetrosis and renal tubular acidosis. Two transcript variants encoding different isoforms have been found for this

gene. [provided by RefSeq, Jun 2014]

Function Essential for bone resorption and osteoclast differentiation (By similarity). Reversible hydration of

carbon dioxide. Can hydrate cyanamide to urea. Involved in the regulation of fluid secretion into the anterior chamber of the eye. Contributes to intracellular pH regulation in the duodenal upper villous epithelium during proton-coupled peptide absorption. Stimulates the chloride-bicarbonate exchange

activity of SLC26A6. [UniProt]

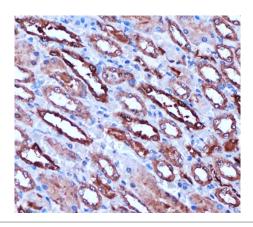
Calculated Mw 29 kDa

Cellular Localization Cytoplasm. Cell membrane. Note=Colocalized with SLC26A6 at the surface of the cell membrane in

order to form a bicarbonate transport metabolon. Displaced from the cytosolic surface of the cell

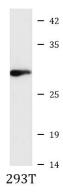
membrane by PKC in phorbol myristate acetate (PMA)-induced cells. [UniProt]

Images



ARG43164 anti-CA2 / Carbonic Anhydrase 2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat kidney tissue stained with ARG43164 anti-CA2 / Carbonic Anhydrase 2 antibody at 1:100 dilution.



ARG43164 anti-CA2 / Carbonic Anhydrase 2 antibody WB image

Western blot: 25 μg of 293T cell lysate stained with ARG43164 anti-CA2 / Carbonic Anhydrase 2 antibody at 1:1000 dilution.