

ARG58375 anti-CA4 / Carbonic Anhydrase 4 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CA4 / Carbonic Anhydrase 4
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Gpig, Hrs, Rb
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CA4 / Carbonic Anhydrase 4
Species	Human
Immunogen	Synthetic peptide around the C-terminal region of Human CA4. (within the following sequence: AFSQKLYDKEQTVSMKDNVRPLQLGQRTVIKSGAPGRPLPWALPALLG)
Conjugation	Un-conjugated
Alternate Names	CAIV; EC 4.2.1.1; Carbonic anhydrase IV; Car4; CA-IV; Carbonate dehydratase IV; RP17; Carbonic anhydrase 4

Application Instructions

Predict Reactivity Note	Predicted homology based on immunogen sequence: Cow: 83%; Guinea Pig: 92%; Horse: 83%; Mouse: 85%; Rabbit: 85%; Rat: 85%						
Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>IHC-P</td><td>1:600</td></tr> <tr> <td>WB</td><td>0.2 - 1 µg/ml</td></tr> </table>	Application	Dilution	IHC-P	1:600	WB	0.2 - 1 µg/ml
Application	Dilution						
IHC-P	1:600						
WB	0.2 - 1 µg/ml						
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.						
Positive Control	Human lung						

Properties

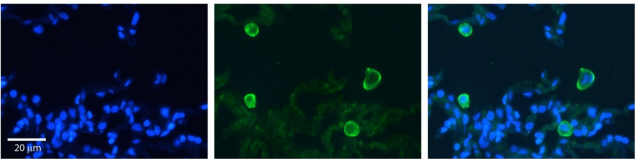
Form	Liquid
Purification	Affinity purified.
Buffer	PBS, 0.09% (w/v) Sodium azide and 2% Sucrose.
Preservative	0.09% (w/v) Sodium azide
Stabilizer	2% Sucrose
Concentration	Batch dependent: 0.5 - 1 mg/ml

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

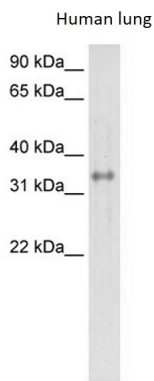
Gene Symbol	CA4
Gene Full Name	carbonic anhydrase IV
Background	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes that catalyze the reversible hydration of carbon dioxide. They participate in a variety of biological processes, including respiration, calcification, acid-base balance, bone resorption, and the formation of aqueous humor, cerebrospinal fluid, saliva, and gastric acid. They show extensive diversity in tissue distribution and in their subcellular localization. This gene encodes a glycosylphosphatidyl-inositol-anchored membrane isozyme expressed on the luminal surfaces of pulmonary (and certain other) capillaries and proximal renal tubules. Its exact function is not known; however, it may have a role in inherited renal abnormalities of bicarbonate transport. [provided by RefSeq, Jul 2008]
Function	Reversible hydration of carbon dioxide. May stimulate the sodium/bicarbonate transporter activity of SLC4A4 that acts in pH homeostasis. It is essential for acid overload removal from the retina and retina epithelium, and acid release in the choriocapillaris in the choroid. [UniProt]
Calculated Mw	35 kDa

Images



ARG58375 anti-CA4 / Carbonic Anhydrase 4 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung tissue stained with ARG58375 anti-CA4 / Carbonic Anhydrase 4 antibody at 1:600 dilution. Magnification: 20X.



ARG58375 anti-CA4 / Carbonic Anhydrase 4 antibody WB image

Western blot: Human lung lysate stained with ARG58375 anti-CA4 / Carbonic Anhydrase 4 antibody at 0.2 - 1 μg/ml dilution.