

Rabbit anti-Human Carbonic Anhydrase IV Monoclonal Antibody | anti-CA4 antibody

Recombinant Anti-Carbonic Anhydrase IV Antibody, Rabbit Monoclonal

CATALOG # AAA254951	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA
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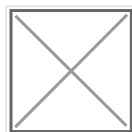
PRODUCT SYNONYMS

Carbonic Anhydrase IV; Monoclonal Antibody; Recombinant Anti-Carbonic Anhydrase IV Antibody; Rabbit Monoclonal; Carbonic Anhydrase IV/CA4 Antibody; Rabbit MAb; carbonic anhydrase IV; Anti-CAIV Antibody; Anti-Car4 Antibody; Anti-RP17 Antibody; anti-CA4 antibody

PRODUCT SPECIFICATIONS

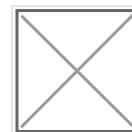
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	039
Specificity	Human Carbonic Anhydrase IV/CA4. No cross-reactivity in ELISA with Human CA2, Human CA3, Human CA5A, Human CA5B, Human CA8, Human CA9, Human CA10, Human CA12, Human CA13, Human CA14
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CA4 antibody	IHC (Immunohistochemistry), ELISA
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Human Carbonic Anhydrase IV/CA4 protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Human Carbonic Anhydrase IV/CA4 (rh Carbonic Anhydrase IV/CA4).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human CA4 in human kidney with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to renal tubules.



IHC (Immunohistochemistry)

Immunochemical staining of human CA4 in human lung with rabbit monoclonal antibody (1:200, formalin-fixed paraffin embedded sections). Positive staining was localized to pulmonary capillaries.

ADDITIONAL INFORMATION

Related Product Information for anti-CA4 antibody	The carbonic anhydrases (or carbonate dehydratases) are classified as metalloenzyme for its zinc ion prosthetic group and form a family of enzymes that catalyze the rapid interconversion of carbon dioxide and water to bicarbonate and protons, a reversible reaction that takes part in maintaining acid-base balance in blood and other tissues. The carbonic anhydraseI (CA) family consists of at least 11 enzymatically active members and a few inactive homologous proteins. Carbonic anhydrase IV (CAIV) is a membrane-associated enzyme anchored to plasma membrane surfaces by a phosphatidylinositol glycan linkage. CAIV is a high-activity isozyme in CO ₂ hydration comparable to that of CAII. Furthermore, CAIV is more active in HCO ₃ ⁻ dehydration than is CAII. However, the esterase activity of CAIV is decreased 150-fold compared to CAII.
References	Lehtonen J, et al. (2004) Characterization of CA XIII, a Novel Member of the Carbonic Anhydrase Isozyme Family. The Journal of Biological Chemistry. 279: 2719-27.Lindskog S. (1997) Structure and mechanism of carbonic anhydrase. Pharmacology & Therapeutics. 74(1):1-20.Baird TT, et al. (1997) Catalysis and Inhibition of Human Carbonic Anhydrase IV. Biochemistry. 36 (9): 2669-78.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502519
NCBI GeneID	762
NCBI Accession #	NP_000708.1
NCBI GenBank Nucleotide #	NM_000717.4
UniProt Accession #	P22748; Q6FHI7; B4DQA4
Molecular Weight	11,599 Da
NCBI Official Full Name	carbonic anhydrase 4 preproprotein
NCBI Official Synonym Full Names	carbonic anhydrase 4
NCBI Official Symbol	CA4
NCBI Official Synonym Symbols	CAIV; Car4; RP17
NCBI Protein Information	carbonic anhydrase 4
UniProt Protein Name	Carbonic anhydrase 4
UniProt Gene Name	CA4
UniProt Synonym Gene Names	CA-IV
UniProt Entry Name	CAH4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/carbonic-anhydrase-iv-antibody-clone-039-immunohistochemistry-elisa/254951>