

Rabbit anti-Mouse, Rat Carbonic Anhydrase 4/CA4 Polyclonal Antibody | anti-Ca4 antibody

Anti-Carbonic Anhydrase 4/CA4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125431	Rabbit	Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

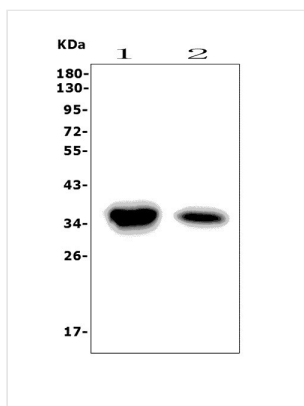
PRODUCT SYNONYMS

Carbonic Anhydrase 4/CA4; Polyclonal Antibody; Anti-Carbonic Anhydrase 4/CA4 Antibody; Carbonic anhydrase 4; Carbonate dehydratase IV; Carbonic anhydrase IV; CA-IV; Ca4; Car4; anti-Ca4 antibody

PRODUCT SPECIFICATIONS

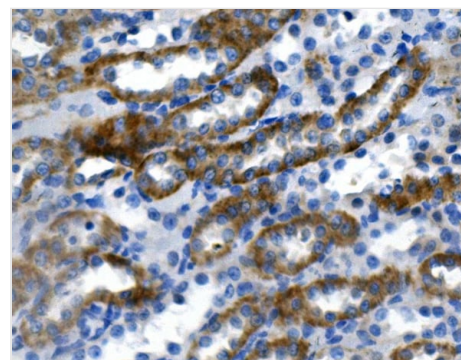
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	305
Applicable Applications for anti-Ca4 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived mouse Carbonic Anhydrase 4/CA4 recombinant protein (Position: E25-L291).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

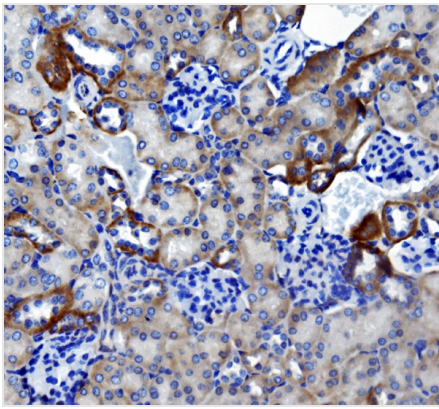


WB (Western Blot)

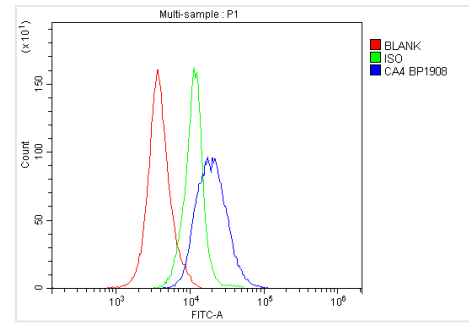
Figure 1. Western blot analysis of Ca4 using anti-Ca4 antibody.



IHC (Immunohistochemistry)



IHC (Immunohistochemistry)



FCM/FACS (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-Ca4 antibody	Description: Rabbit IgG polyclonal antibody for Carbonic Anhydrase 4/CA4 detection. Tested with WB, IHC-P, FCM, Direct ELISA in Mouse; Rat.
	Background: Carbonic anhydrase 4 is an enzyme that in humans is encoded by the CA4 gene. It is mapped to 11; 11 C. 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.
References	- Alvarez, B. V., Vithana, E. N., Yang, Z., Koh, A. H., Yeung, K., Yong, V., Shandro, H. J., Chen, Y., Kolatkar, P., Palasingam, P., Zhang, K., Aung, T., Casey, J. R. Identification and characterization of a novel mutation in the carbonic anhydrase IV gene that causes retinitis pigmentosa. <i>Invest. Ophthalm. Vis. Sci.</i> 48: 3459-3468, 2007. - Bardien, S., Ebenezer, N., Greenberg, J., Inglehearn, C. F., Bartmann, L., Goliath, R., Beighton, P., Ramesar, R., Bhattacharya, S. S. An eighth locus for autosomal dominant retinitis pigmentosa is linked to chromosome 17q. <i>Hum. Molec. Genet.</i> 4: 1459-1462, 1995. - Bardien, S., Ramesar, R., Bhattacharya, S., Greenberg, J. Retinitis pigmentosa locus on 17q (RP17): fine localization to 17q22 and exclusion of the PDEG and TIMP2 genes. <i>Hum. Genet.</i> 101: 13-17, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6671678
NCBI GeneID	12351
NCBI Accession #	NP_031633.1
NCBI GenBank Nucleotide #	NP_031633.1
UniProt Accession #	Q64444
NCBI Official Full Name	carbonic anhydrase 4
NCBI Official Synonym Full Names	carbonic anhydrase 4
NCBI Official Symbol	Car4
NCBI Official Synonym Symbols	Ca4; AW456718
NCBI Protein Information	carbonic anhydrase 4
UniProt Protein Name	Carbonic anhydrase 4
UniProt Gene Name	Ca4

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/polyclonal/carbonic-anhydrase-4-ca4-antibody-direct-elisa-flow-cytometry-immunohistochemistry-western-blot-elisa/125431>