

Rabbit anti-Human carbonic anhydrase XII Polyclonal Antibody | anti-CA12 antibody

Anti-carbonic anhydrase XII Antibody, Rabbit Polyclonal

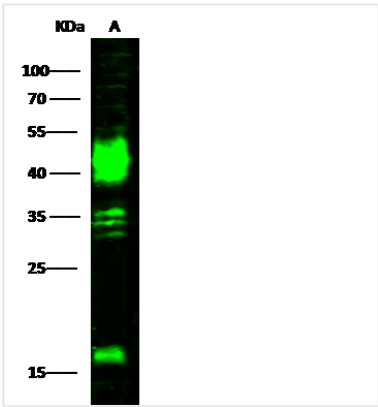
CATALOG # AAA255033	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

carbonic anhydrase XII; Polyclonal Antibody; Anti-carbonic anhydrase XII Antibody; Rabbit Polyclonal; Carbonic Anhydrase XII/CA12 Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-CA12 Antibody; Anti-CAXII Antibody; Anti-FLJ20151 Antibody; Anti-HsT18816 Antibody; anti-CA12 antibody

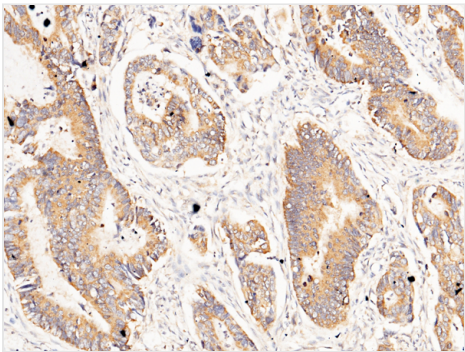
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human CA12/CAXII
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CA12 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant Human CA12 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human CA12 extracellular domain (rh CA12). CA12 specific IgG was purified by human CA12 affinity chromatography.
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.



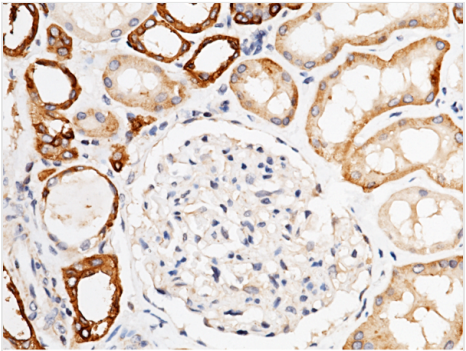
WB (Western Blot)

Anti-CA12 rabbit polyclonal antibody at 1:500 dilutionLane A: MCF7 Membrane LysateLysates/proteins at 20 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:39 kDaObserved band size:40 kDa(We are unsure as to the identity of these extra bands.



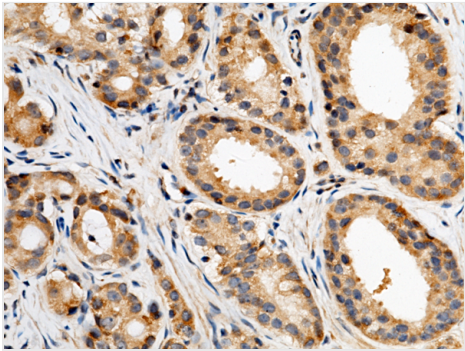
IHC (Immunohistochemisry)

Immunochemical staining of human CA12 in human colon carcinomawith rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to epithelium.



IHC (Immunohiostchemistry)

Immunochemical staining of human CA12 in human kidney with rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to nephric tubule.



IHC (Immunohistochemistry)

Immunochemical staining of human CA12 in human prostatic carcinomawith rabbit polyclonal antibody (1:1000, formalin-fixed paraffin embedded sections). Positive staining was localized to epithelium.

ADDITIONAL INFORMATION

Related Product Information for anti-CA12 antibody	Carbonic anhydrases (CAs) are a large family of zinc metalloenzymes first discovered in 1933 that catalyze the reversible hydration of carbon dioxide. CAs 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. CA12, also known as Car12 and carbonic anhydrase XII, is a type I membrane enzyme of an N-terminal extracellular catalytic domain, a membrane-spanning alpha-helix, and a small intracellular C-terminal domain. It is highly expressed in colon, kidney, prostate, intestine and activated lymphocytes and moderately expressed in pancreas, ovary, and testis. Overexpression of the CA12 is observed in certain human cancers and is used as a tumor marker. rmCA12 corresponds to the extracellular domain and has both carbonic anhydrase activity and esterase activity.
References	Sahin, U. et al., 1996, Proc. Natl. Acad. Sci. U.S.A. 92 (25): 11810-11813. Ivanov, S.V. et al., 1998, Proc. Natl. Acad. Sci. USA 95:12596-12601. Strausberg, R.L. et al., 2002, Proc. Natl. Acad. Sci. USA 99:16899-16903. Liao, S.Y. et al., 2003, J. Med. Genet. 40:257-262. Supuran, C. T. et al., 2008, Curr Pharm Des. 14 (7): 601-602. Elleuche, S. et al., 2009, Curr Genet. 55 (2): 211-222.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502515
NCBI GeneID	771
NCBI Accession #	NP_001209.1

NCBI GenBank Nucleotide #	NM_001218.3
UniProt Accession #	O43570 ; Q53YE5 ; Q9BWG2
Molecular Weight	39,451 Da
NCBI Official Full Name	carbonic anhydrase 12 isoform 1
NCBI Official Synonym Full Names	carbonic anhydrase XII
NCBI Official Symbol	CA12
NCBI Official Synonym Symbols	CAXII; HsT18816
NCBI Protein Information	carbonic anhydrase 12; CA-XII; carbonic dehydratase; carbonate dehydratase XII; tumor antigen HOM-RCC-3.1.3
UniProt Protein Name	Carbonic anhydrase 12
UniProt Gene Name	CA12
UniProt Synonym Gene Names	CA-XII
UniProt Entry Name	CAH12_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/polyclonal/carbonic-anhydrase-xii-antibody-immunohistochemistry-western-blot-elisa/255033>