

Rabbit anti-Human CA13 Polyclonal Antibody | anti-CA13 antibody

Anti-CA13 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254940	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

CA13; Polyclonal Antibody; Anti-CA13 Antibody; Rabbit Polyclonal; Carbonic Anhydrase XIII/CA13 Antibody; Rabbit PAb; Antigen Affinity Purified; carbonic anhydrase XIII; Anti-CAXIII Antibody; Anti-FLJ37995 Antibody; Anti-MGC59868 Antibody; anti-CA13 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Carbonic Anhydrase XIII/CA13
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-CA13 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Carbonic Anhydrase XIII/CA13 protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Carbonic Anhydrase XIII/CA13 (rh Carbonic Anhydrase XIII/CA13). Carbonic Anhydrase XIII/CA13 specific IgG was purified by Human Carbonic Anhydrase XIII/CA13 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.

IMAGES



IP (Immunoprecipitation)

CA13 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate Lane B: 0.5 mg K562 Whole Cell Lysate 2 uL anti-CA13 rabbit polyclonal antibody and 15 ul of 50 % Protein G agarose. Primary antibody: Anti-CA13 rabbit polyclonal antibody, at 1:500 dilution Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution Developed using the odyssey technique. Performed under reducing conditions. Predicted band size: 29 kDa Observed band size: 29 kDa



WB (Western Blot)

Anti-CA13 rabbit polyclonal antibody at 1:500 dilution Lane A: HepG2 Whole Cell Lysate Lane B: K562 Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (DyLight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 29 kDa Observed band size: 33 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-CA13 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. The CAXIII is a member of the CA family, which owns a globular molecule with high structural similarity to cytosolic isozymes, CAI, II, and III. Recombinant mouse CAXIII showed catalytic activity similar to those of mitochondrial CAV and cytosolic CAI. In human tissues, CAXIII expression was identified in the thymus, small intestine, spleen, prostate, ovary, colon, and testis. In mouse, positive tissues included the spleen, lung, kidney, heart, brain, skeletal muscle, and testis. In conclusion, the predicted amino acid sequence, structural model, distribution, and activity data suggest that CAXIII represents a novel enzyme, which may play important physiological roles in several organs.
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.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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	38348436
NCBI GeneID	377677
NCBI Accession #	NP_940986.1
NCBI GenBank Nucleotide #	NM_198584.2
UniProt Accession #	Q8N1Q1
Molecular Weight	29,443 Da
NCBI Official Full Name	carbonic anhydrase 13
NCBI Official Synonym Full Names	carbonic anhydrase XIII
NCBI Official Symbol	CA13
NCBI Official Synonym Symbols	CAXIII
NCBI Protein Information	carbonic anhydrase 13; CA-XIII; carbonate dehydratase XIII
UniProt Protein Name	Carbonic anhydrase 13
UniProt Gene Name	CA13
UniProt Synonym Gene Names	CA-XIII
UniProt Entry Name	CAH13_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/ca13-antibody-immunoprecipitation-western-blot-elisa/254940>