CA5A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CA5A, Polyclonal Antibody
Full Product Name	CA5A Antibody
Product Gene Name	anti-CA5A antibody
Product Synonym Names	ca5; ca5a; carbonic anhydrase va; mitochondrial; cav
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total CA5A protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	34,750 Da
Chromosome Location	Chromosome: 16; NC_000016.9 (87921625..87970112, complement). Location: 16q24.3
OMIM	114761
3D Structure	ModBase 3D Structure for P35218
Immunogen	Synthesized peptide derived from internal of human CA5A.
Product Categories/Family for anti-CA5A antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CA5A antibody	Western Blot (WB)
Application Notes for anti-CA5A antibody	WB: 1:500~1:3000
Related Product Information for anti-CA5A antibody	MBS8588116 is an antibody targeting CA5A. Also known as CA5A Antibody. Reactive in Human. Host: Rabbit. Reversible hydration of carbon dioxide. Low activity.
Product References and Citations for anti-CA5A antibody	Nagao Y., Proc. Natl. Acad. Sci. U.S.A. 90:7623-7627 (1993).Nagao Y., Genomics 28:477-484 (1995)
Other Notes	Small volumes of anti-CA5A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CA5A. It may not necessarily be applicable to this product.

NCBI GI #	4502521
NCBI GeneID	763
NCBI Accession #	NP_001730.1
UniProt Primary Accession #	P35218
UniProt Secondary Accession #	B2RPF2
UniProt Related Accession #	P35218
GenBank Nucleotide #	NM_001739.1
NCBI Official Full Name	carbonic anhydrase 5A, mitochondrial
NCBI Official Synonym Full Names	carbonic anhydrase VA, mitochondrial
NCBI Official Symbol	CA5A
NCBI Official Synonym Symbols	CA5; CAV; CAVA
UniProt Protein Name	Carbonic anhydrase 5A, mitochondrial
UniProt Synonym Protein Names	Carbonate dehydratase VA; Carbonic anhydrase VA
Protein Family	Carbonic anhydrase
UniProt Gene Name	CA5A
UniProt Synonym Gene Names	CA5; CA-VA
UniProt Entry Name	CAH5A_HUMAN
NCBI Protein Information	carbonic anhydrase 5A, mitochondrial; CA-VA; carbonic dehydratase; carbonate dehydratase VA; carbonic anhydrase V, mitochondrial
NCBI Summary for CA5A	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. CA VA is localized in the mitochondria and expressed primarily in the liver. It may play an important role in ureagenesis and gluconeogenesis. CA5A gene maps to chromosome 16q24.3 and an unprocessed pseudogene has been assigned to 16p12-p11.2. [provided by RefSeq, Jul 2008]
UniProt Comments for CA5A	Car5a: Reversible hydration of carbon dioxide. Low activity. Belongs to the alpha-carbonic anhydrase family. Protein type: EC 4.2.1.1; Lyase; Mitochondrial; Energy Metabolism - nitrogen Chromosomal Location of Human Ortholog: 16q24.3 Cellular Component: mitochondrion; mitochondrial matrix Molecular Function: carbonate dehydratase activity; zinc ion binding Biological Process: bicarbonate transport; one-carbon compound metabolic process Disease: Carbonic Anhydrase Va Deficiency, Hyperammonemia Due To
Research Articles on CA5A	**1.** Observational study of gene-disease association. (HuGE Navigator)
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