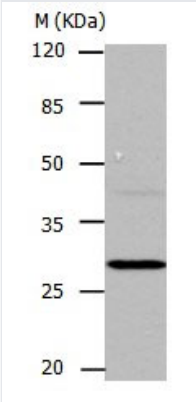
CA1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CA1, Polyclonal Antibody
Full Product Name	CA1 Antibody
Product Gene Name	anti-CA1 antibody
Product Synonym Names	Carbonic anhydrase 1, CAB, CA-I, Car1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied at 0.9mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.3, 0.05% sodium azide and 50% glycerol.
Specificity	The antibody detects endogenous level of total CA1 protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	28,870 Da
OMIM	114800
Immunogen Type	Recombinant Protein
Immunogen Description	Full length fusion protein
Target Name	CA1
Product Categories/Family for anti-CA1 antibody	Total protein Ab
Applications Tested/Suitable for anti-CA1 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CA1 antibody	ELISA: 1:2000-1:5000 Western blotting: 1:500-1:2000
Related Product Information for anti-CA1 antibody	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. CA1 is closely linked to CA2 and CA3 genes on chromosome 8, and it encodes a cytosolic protein which is found at the highest level in erythrocytes. Variants of this gene have been described in some populations. Multiple alternatively spliced variants, encoding the same protein, have been identified. Transcript variants of CA1 utilizing alternative polyA_sites have been described in literature.
Other Notes	Small volumes of anti-CA1 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.
Searchable Terms for CA1 purchase	MBS9402945 is an antibody targeting CA1. Also known as CA1 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Testing Data of anti-CA1 antibody
Gel: 10%SDS-PAGE Lysate: 24 ug Mouse liver tissue lysate Primary antibody: 1/450 dilution Secondary antibody: Donkey anti Rabbit IgG - H&L (HRP) at 1/3000 dilution Exposure time: 2 minutes

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CA1. It may not necessarily be applicable to this product.

NCBI GI #	20380765
NCBI GeneID	759
NCBI Accession #	BC027890
UniProt Related Accession #	P00915
NCBI Official Full Name	Homo sapiens carbonic anhydrase I, mRNA
NCBI Official Synonym Full Names	carbonic anhydrase I
NCBI Official Symbol	CA1
NCBI Official Synonym Symbols	CAB; CA-I; Car1; HEL-S-11
UniProt Protein Name	Carbonic anhydrase 1
UniProt Synonym Protein Names	Carbonate dehydratase I; Carbonic anhydrase B; CAB; Carbonic anhydrase I; CA-I
Protein Family	Actin
UniProt Gene Name	CA1
UniProt Synonym Gene Names	CAB; CA-I
UniProt Entry Name	CAH1_HUMAN
NCBI Protein Information	carbonic anhydrase 1
NCBI Summary for CA1	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 CA1 gene is closely linked to the CA2 and CA3 genes on chromosome 8. It encodes a cytosolic protein that is found at the highest level in erythrocytes. Allelic variants of this gene have been described in some populations. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

UniProt Comments for CA1	CA1: Reversible hydration of carbon dioxide. Can hydrates cyanamide to urea. Belongs to the alpha-carbonic anhydrase family. Protein type: Lyase; Energy Metabolism - nitrogen; EC 4.2.1.1 Chromosomal Location of Human Ortholog: 8q21.2 Cellular Component: cytosol Molecular Function: arylesterase activity; carbonate dehydratase activity; hydro-lyase activity; protein binding; zinc ion binding Biological Process: bicarbonate transport; one-carbon compound metabolic process
Research Articles on CA1	**1.** The gene encoding CA1 is susceptible to ankylosing spondylitis and plays a role in the process of bone formation.
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