CA3 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CA3, Blocking Peptide
Full Product Name	CA3 Antibody (N-term) Blocking Peptide
Product Gene Name	CA3 blocking peptide
Product Synonym Names	Carbonic anhydrase 3; Carbonate dehydratase III; Carbonic anhydrase III; CA-III; CA3
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the N-term region of human CA3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	CA3 peptide (MBS9227090) is used for blocking the activity of CA3 antibody (MBS9213860)
Molecular Weight	29,557 Da
OMIM	114750
Cellular Location	Cytoplasm.
Tissue Location	Muscle specific.
Related Product Information for CA3 blocking peptide	MBS9227090 is a blocking peptide targeting CA3. Also known as CA3 Antibody (N-term) Blocking Peptide. Reversible hydration of carbon dioxide.
Other Notes	Small volumes of CA3 blocking peptide 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 CA3. It may not necessarily be applicable to this product.

NCBI GI #	134047703
NCBI GeneID	761
NCBI Accession #	P07451.3
UniProt Primary Accession #	P07451
UniProt Secondary Accession #	O60842; B2R867; B3KUC8
UniProt Related Accession #	P07451
NCBI Official Full Name	Carbonic anhydrase 3
NCBI Official Synonym Full Names	carbonic anhydrase 3
NCBI Official Symbol	CA3
NCBI Official Synonym Symbols	Car3; CAIII
UniProt Protein Name	Carbonic anhydrase 3

UniProt Synonym Protein Names	Carbonate dehydratase III; Carbonic anhydrase III; CA-III
Protein Family	Carbonic anhydrase
UniProt Gene Name	CA3
UniProt Synonym Gene Names	CA-III
UniProt Entry Name	CAH3_HUMAN
NCBI Protein Information	carbonic anhydrase 3
NCBI Summary for CA3	Carbonic anhydrase III (CAIII) is a member of a multigene family (at least six separate genes are known) that encodes carbonic anhydrase isozymes. These carbonic anhydrases are a class of metalloenzymes that catalyze the reversible hydration of carbon dioxide and are differentially expressed in a number of cell types. The expression of the CA3 gene is strictly tissue specific and present at high levels in skeletal muscle and much lower levels in cardiac and smooth muscle. A proportion of carriers of Duchenne muscle dystrophy have a higher CA3 level than normal. The gene spans 10.3 kb and contains seven exons and six introns. [provided by RefSeq, Oct 2008]
UniProt Comments for CA3	CA3: Reversible hydration of carbon dioxide. Belongs to the alpha-carbonic anhydrase family. Protein type: Energy Metabolism - nitrogen; Lyase; EC 4.2.1.1 Chromosomal Location of Human Ortholog: 8q21.2 Cellular Component: cytosol Molecular Function: carbonate dehydratase activity Biological Process: bicarbonate transport
Research Articles on CA3	**1.** this study detected the formation and colocalization of 6-nitrotryptophan-containing proteins and CAIII in the skin of atopic dermatitis patients, not only in the lesional part but also in the nonlesional part, through histochemical analyses
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