Carnitine Acetyltransferase (CRAT) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	carnitine acetyltransferase (CRAT), Polyclonal Antibody
Full Product Name	Rabbit anti-human carnitine acetyltransferase polyclonal Antibody
Product Gene Name	anti-CRAT antibody
Product Synonym Names	carnitine acetyltransferase; CRAT; CAT1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen Affinity Purified
Molecular Weight	61,870 Da
OMIM	600184
3D Structure	ModBase 3D Structure for P43155
Immunogen	Human CRAT
Storage Buffer	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3. -20 degree C, Avoid freeze / thaw cycles.
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-22683
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CRAT antibody	ELISA (EIA), Western Blot (WB)
Related Product Information for anti-CRAT antibody	MBS711044 is an antibody targeting CRAT. Also known as Rabbit anti-human carnitine acetyltransferase polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-CRAT 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 CRAT. It may not necessarily be applicable to this product.

NCBI GI #	927415
NCBI GeneID	1384
NCBI Accession #	CAA55359.1
UniProt Primary Accession #	P43155
UniProt Secondary Accession #	Q5T952; Q9BW16
UniProt Related Accession #	P43155
NCBI Official Full Name	carnitine acetyltransferase, partial
NCBI Official Synonym Full Names	carnitine O-acetyltransferase

NCBI Official Symbol	CRAT
NCBI Official Synonym Symbols	CAT1
UniProt Protein Name	Carnitine O-acetyltransferase
UniProt Synonym Protein Names	Carnitine acetyltransferase; CAT; CrAT
Protein Family	Carnitine O-acetyltransferase
UniProt Gene Name	CRAT
UniProt Synonym Gene Names	CAT1; Carnitine acetylase; CAT; CrAT
UniProt Entry Name	CACP_HUMAN
NCBI Protein Information	carnitine O-acetyltransferase; CAT; carnitine acetylase; carnitine acetyltransferase
NCBI Summary for CRAT	This gene encodes carnitine acetyltransferase (CRAT), which is a key enzyme in the metabolic pathway in mitochondria, peroxisomes and endoplasmic reticulum. CRAT catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acylCoA/CoA in the subcellular compartments. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]
UniProt Comments for CRAT	CRAT: Carnitine acetylase is specific for short chain fatty acids. Carnitine acetylase seems to affect the flux through the pyruvate dehydrogenase complex. It may be involved as well in the transport of acetyl-CoA into mitochondria. Belongs to the carnitine/choline acetyltransferase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.3.1.7; Acetyltransferase; Mitochondrial Chromosomal Location of Human Ortholog: 9q34.1 Cellular Component: peroxisomal matrix; mitochondrion; endoplasmic reticulum; mitochondrial inner membrane; peroxisome Molecular Function: carnitine O-acetyltransferase activity; receptor binding Biological Process: fatty acid beta-oxidation using acyl-CoA oxidase; carnitine metabolic process, CoA-linked; transport; cellular lipid metabolic process
Research Articles on CRAT	**1.** CrAT turned out to be active towards some but not all the BCAAO intermediates tested and no activity was found with dicarboxylic acyl-CoA esters.
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