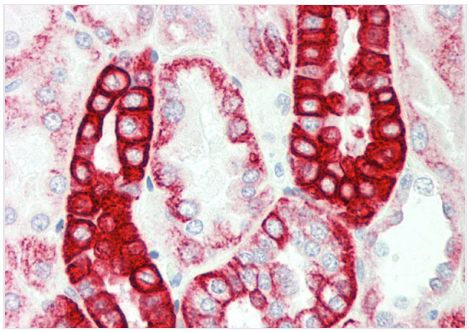
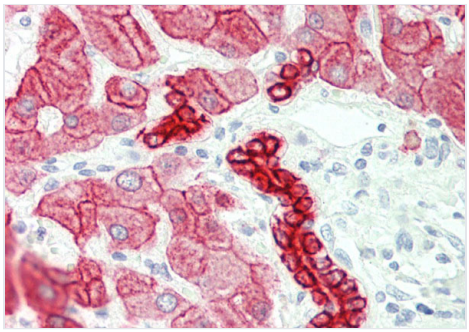
CRAT Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

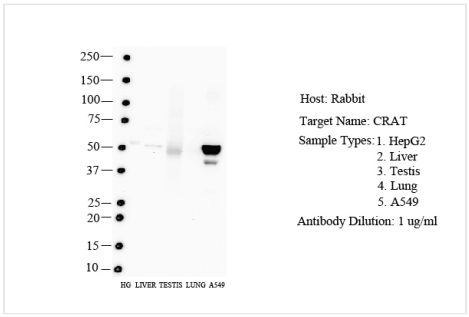
Product Name	CRAT, Polyclonal Antibody
Full Product Name	CRAT antibody - N-terminal region
Product Gene Name	anti-CRAT antibody
Product Synonym Gene Name	RP11-247A12.5; CAT1
Immunogen Sequence	Synthetic peptide located within the following region: MKASSRFKAH QDALPRLPVP PLQQSLDHYL KALQPIVSEE EWAHTKQLVD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CRAT peptide (MBS3236319) is used for blocking the activity of CRAT antibody (MBS3211368)
Molecular Weight	51kDa
OMIM	600184
3D Structure	ModBase 3D Structure for P43155
Homology	Cow: 92%; Dog: 92%; Guinea Pig: 91%; Horse: 85%; Human: 100%; Mouse: 92%; Rabbit: 92%; Rat: 92%
Immunogen	The immunogen is a synthetic peptide directed towards the N terminal region of human CRAT
Product Categories/Family for anti-CRAT antibody	Polyclonal; Drugs and Drug Metabolism
Applications Tested/Suitable for anti-CRAT antibody	Western Blot (WB)
Related Product Information for anti-CRAT antibody	This is a rabbit polyclonal antibody against CRAT. It was validated on Western Blot using a cell lysate as a positive control. Target Description: Carnitine acetyltransferase (CRAT) 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. Different subcellular localizations of the CRAT mRNAs are thought to result from alternative splicing of the CRAT gene suggested by the divergent sequences in the 5' region of peroxisomal and mitochondrial CRAT cDNAs and the location of an intron where the sequences diverge.
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.
Searchable Terms for CRAT purchase	MBS3211368 is an antibody targeting CRAT. Also known as CRAT antibody - N-terminal region. Reactive in Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat. Host: Rabbit.



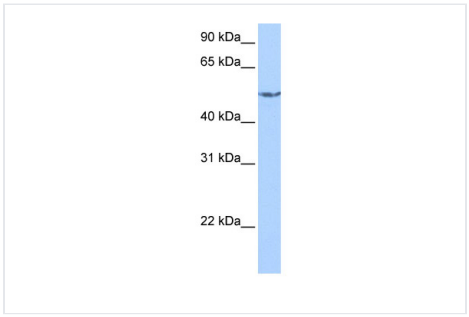
Immunohistochemistry (IHC) of anti-CRAT antibody
Rabbit Anti-CRAT antibodyFormalin Fixed Paraffin Embedded Tissue: Human KidneyPrimary antibody Concentration: 1:100Secondary Antibody: Donkey anti-Rabbit-Cy3Secondary Antibody Concentration: 1:200Magnification: 20xExposure Time: 0.5-2.0sec



Immunohistochemistry (IHC) of anti-CRAT antibody
Rabbit Anti-CRAT antibodyFormalin Fixed Paraffin Embedded Tissue: Human LiverPrimary antibody Concentration: 1:100Secondary Antibody: Donkey anti-Rabbit-Cy3Secondary Antibody Concentration: 1:200Magnification: 20xExposure Time: 0.5-2.0sec



Western Blot (WB) of anti-CRAT antibody
Host: RabbitTarget Name: CRATSample Type: Human HepG2, Liver, TestisAntibody Dilution: 2.0 ug/ml



Western Blot (WB) of anti-CRAT antibody
WB Suggested Anti-CRAT Antibody Titration: 0.2-1 ug/mlPositive Control: HepG2 cell lysate

ADDITIONAL DETAILS

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

NCBI GI #	119608279
NCBI GeneID	1384
NCBI Accession #	EAW87873.1
UniProt Primary Accession #	P43155
UniProt Related Accession #	P43155
GenBank Nucleotide #	NM_000755
NCBI Official Full Name	carnitine acetyltransferase, isoform CRA_a, partial
NCBI Official Synonym Full Names	carnitine O-acetyltransferase
NCBI Official Symbol	CRAT
NCBI Official Synonym Symbols	CAT; CAT1; NBIA8
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

NCBI Summary for CRAT	This gene encodes carnitine O-acetyltransferase, a member of the carnitine acyltransferase family and a key metabolic pathway enzyme which plays an important role in energy homeostasis and fat metabolism. This enzyme catalyzes the reversible transfer of acyl groups from an acyl-CoA thioester to carnitine and regulates the ratio of acyl-CoA/CoA. It is found in both the mitochondria and the peroxisome. Alternative splicing results in transcript variants encoding different isoforms that may localize to different subcellular compartments. [provided by RefSeq, Oct 2016]
Research Articles on CRAT	**1.** We provide evidence that the downregulation of hsa-miR-124-3p, hsa-miR-129-5p and hsa-miR-378 induced an increase in both expression and activity of CPT1A, CACT and CrAT in malignant prostate cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-cow-dog-guinea-pig-horse-human-mouse-pig-rabbit-rat-antibody/crat/3211368