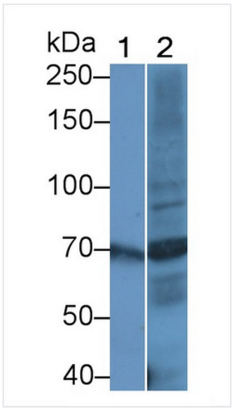
Carnitine Acetyltransferase (CRAT) Antibody – Mouse Monoclonal

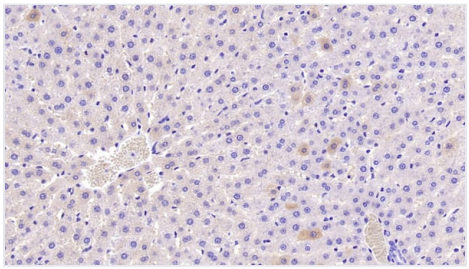
PRODUCT OVERVIEW

Product Name	Carnitine Acetyltransferase (CRAT), Monoclonal Antibody
Full Product Name	Monoclonal Antibody to Carnitine Acetyltransferase (CRAT)
Product Gene Name	anti-CRAT antibody
Product Synonym Names	CRAT/Carnitine Acetyltransferase; CAT1; Carnitine OAcetyltransferase; Carnitine acetylase
Clonality	Monoclonal
Isotype	IgG2b Kappa
Clone Number	C2
Host	Mouse
Species Reactivity	Mouse, Rat
Form/Format	Liquid; 0.01M PBS, pH7.4, containing 0.05% Proclin300, 50% glycerol.
Purity/Purification	Protein A + Protein G affinity chromatography
Concentration	1mg/mL (lot specific)
Specificity	The antibody is a mouse monoclonal antibody raised against CRAT. It has been selected for its ability to recognize CRAT in immunohistochemical staining and western blotting.
Preparation and Storage	Store at 2 degree C to 8 degree C for frequent use, 20 degree C for 24 months The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Matching Pairs	Unconjugated Antibody: CRAT Clone #C2 (MBS2139152) APC-CY7 Conjugated Antibody: CRAT Clone #C2 (MBS2135097)
Matching Pairs	Unconjugated Antibody: CRAT Clone #C2 (MBS2139152) PE Conjugated Antibody: CRAT Clone #C2 (MBS2135099)
Matching Pairs	Unconjugated Antibody: CRAT Clone #C2 (MBS2139152) APC Conjugated Antibody: CRAT Clone #C2 (MBS2135101)
Matching Pairs	Unconjugated Antibody: CRAT Clone #C2 (MBS2139152) Cy3 Conjugated Antibody: CRAT Clone #C2 (MBS2135103)
Matching Pairs	Unconjugated Antibody: CRAT Clone #C2 (MBS2139152) Biotin Conjugated Antibody: CRAT Clone #C2 (MBS2135105)
Matching Pairs	Unconjugated Antibody: CRAT Clone #C2 (MBS2139152) FITC Conjugated Antibody: CRAT Clone #C2 (MBS2135107)
Matching Pairs	Unconjugated Antibody: CRAT Clone #C2 (MBS2139152) HRP Conjugated Antibody: CRAT Clone #C2 (MBS2135109)
Molecular Weight	70,801 Da
3D Structure	ModBase 3D Structure for Q704S8
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen Type	Prokaryotic Recombinant proteins/RP

Sequence of Immunogen	Gln55~Arg256
Conjugation	Unconjugated
Product Categories/Family for anti-CRAT antibody	Enzyme & Kinase; Metabolic pathway; Primary
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CRAT antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunoprecipitation (IP)
Application Notes for anti-CRAT antibody	WB: 0.52ug/mL IHC: 520ug/mL ICC: 520ug/mL
Related Product Information for anti-CRAT antibody	MBS2139152 is an antibody targeting CRAT. Also known as Monoclonal Antibody to Carnitine Acetyltransferase (CRAT). Reactive in Mouse, Rat. Host: Mouse.
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.



Western Blot (WB) of anti-CRAT antibody



Immunohistochemistry (IHC) of anti-CRAT antibody
DAB staining on IHCP; Samples: Rat Liver Tissue; Primary Ab: 40ug/ml Mouse AntiRat CRAT Antibody Second Ab: 2ug/mL HRPLinked Caprine AntiMouse IgG Polyclonal Antibody (Catalog: SAA544Mu19)

ADDITIONAL DETAILS

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

NCBI GI #	51854229
NCBI GeneID	311849
NCBI Accession #	NP_001004085.1
UniProt Primary Accession #	Q704S8
UniProt Related Accession #	Q704S8
GenBank Nucleotide #	NM_001004085.2
NCBI Official Full Name	carnitine O-acetyltransferase
NCBI Official Synonym Full Names	carnitine O-acetyltransferase
NCBI Official Symbol	Crat
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	Carnitine acetylase; CAT; CrAT
NCBI Protein Information	carnitine O-acetyltransferase
NCBI Summary for CRAT	catalyzes the reversible transfer of an acyl group from acyl-CoA thioesters to carnitine; key enzyme in mitochondrial and endoplasmic reticulum metabolic pathways [RGD, Feb 2006]
UniProt Comments for 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 ().
Research Articles on CRAT	**1.** Lipid-induced antagonism of CrAT might contribute to decreased PDH activity and glucose disposal in the context of obesity and diabetes.
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.
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