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CROT Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CROT.
Catalog # AT1630a

Product Information

Application	WB
Primary Accession	Q9UKG9
Other Accession	NM_021151
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1A6
Calculated MW	70178

Additional Information

Gene ID	54677
Other Names	Peroxisomal carnitine O-octanoyltransferase, COT, CROT, COT
Target/Specificity	CROT (NP_066974, 2 a.a. ~ 99 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CROT Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

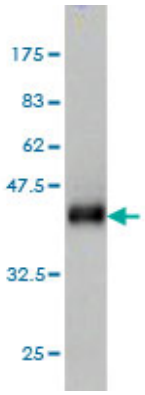
This gene encodes a member of the carnitine/choline acetyltransferase family. The encoded protein converts 4,8-dimethylnonanoyl-CoA to its corresponding carnitine ester. This transesterification occurs in the peroxisome and is necessary for transport of medium- and long- chain acyl-CoA molecules out of the peroxisome to the cytosol and mitochondria. The protein thus plays a role in lipid metabolism and fatty acid beta-oxidation. Alternatively spliced transcript variants have been described.

References

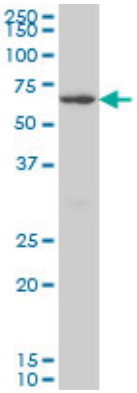
Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.In vitro selection of adenine-dependent

ribozyme against Tpl2/Cot oncogene. Li YL, et al. FEBS J, 2009 Jan. PMID 19054068.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Human chromosome 7: DNA sequence and biology. Scherer SW, et al. Science, 2003 May 2. PMID 12690205.

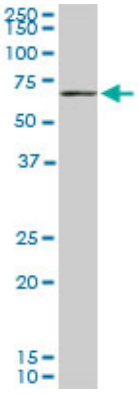
Images



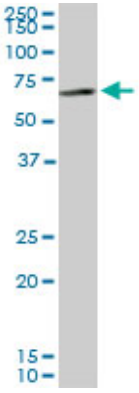
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.52 KDa) .



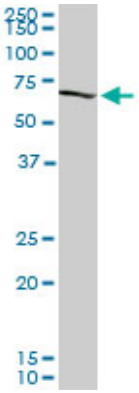
CROT monoclonal antibody (M01), clone 1A6 Western Blot analysis of CROT expression in HeLa ((Cat # AT1630a)



CROT monoclonal antibody (M01), clone 1A6. Western Blot analysis of CROT expression in PC-12 ((Cat # AT1630a)



CROT monoclonal antibody (M01), clone 1A6. Western Blot analysis of CROT expression in Raw 264.7 ((Cat # AT1630a)



CROT monoclonal antibody (M01), clone 1A6. Western Blot analysis of CROT expression in NIH/3T3 ((Cat # AT1630a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.