

CROT Antibody (monoclonal) (M01)

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

Specification

CROT Antibody (monoclonal) (M01) - Product Information

Application
Primary Accession
Other Accession
Reactivity
Host
Clonality
Isotype

O9UKG9 NM_021151 Human, Mouse, Rat mouse Monoclonal

IgG1 Kappa 70178

WB

CROT Antibody (monoclonal) (M01) - Additional Information

Gene ID 54677

Calculated MW

Other Names

Peroxisomal carnitine O-octanoyltransferase, COT, CROT, COT

Target/Specificity

CROT (NP_066974, 2 a.a. \sim 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.

CROT Antibody (monoclonal) (M01) - Protocols

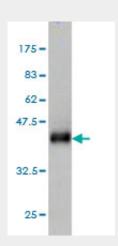
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

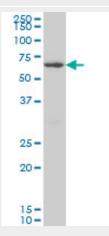


- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

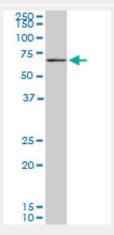
CROT Antibody (monoclonal) (M01) - Images



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

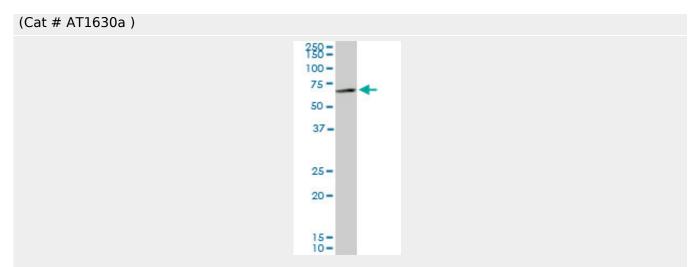


CROT monoclonal antibody (M01), clone 1A6 Western Blot analysis of CROT expression in HeLa ((Cat # AT1630a)

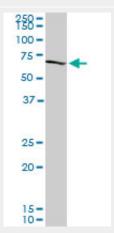


CROT monoclonal antibody (M01), clone 1A6. Western Blot analysis of CROT expression in PC-12 (





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)

CROT Antibody (monoclonal) (M01) - 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.

CROT Antibody (monoclonal) (M01) - 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.