

ARG42070 anti-CROT / COT antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CROT / COT
Tested Reactivity	Hu, Ms
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CROT / COT
Species	Human
Immunogen	KLH-conjugated synthetic peptide between aa. 49-79 of Human CROT.
Conjugation	Un-conjugated
Alternate Names	Peroxisomal carnitine O-octanoyltransferase; COT; EC 2.3.1.137

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	IHC-P	1:50 - 1:100
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse liver	
Observed Size	~ 70 kDa	

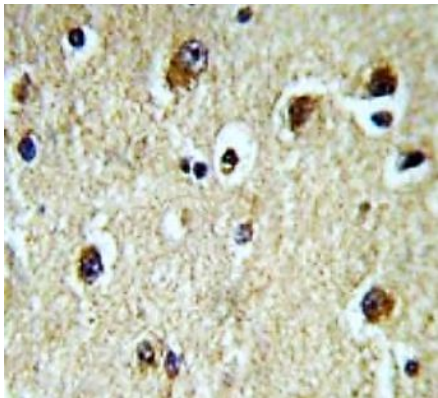
Properties

Form	Liquid
Purification	Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

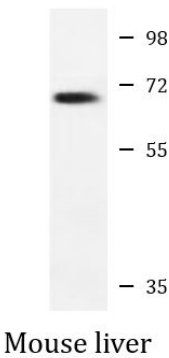
Gene Symbol	CROT
Gene Full Name	carnitine O-octanoyltransferase
Background	This gene encodes a member of the carnitine/choline acetyltransferase family. The encoded protein converts 4,8-dimethylnonanoyl-CoA to its corresponding carnitine ester. This transesterification occurs in the peroxisome and is 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. [provided by RefSeq, Jan 2009]
Function	Beta-oxidation of fatty acids. The highest activity concerns the C6 to C10 chain length substrate. Converts the end product of pristanic acid beta oxidation, 4,8-dimethylnonanoyl-CoA, to its corresponding carnitine ester. [UniProt]
Calculated Mw	70 kDa
Cellular Localization	Peroxisome. [UniProt]

Images



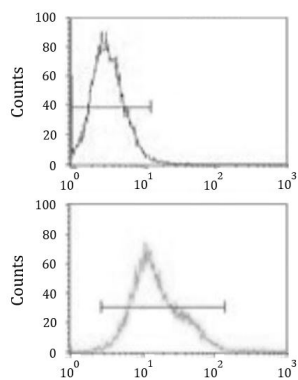
ARG42070 anti-CROT / COT antibody IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human brain tissue stained with ARG42070 anti-CROT / COT antibody.



ARG42070 anti-CROT / COT antibody WB image

Western blot: 35 µg of Mouse liver lysate stained with ARG42070 anti-CROT / COT antibody.



ARG42070 anti-CROT / COT antibody FACS image

Flow Cytometry: K562 cells stained with ARG42070 anti-CROT / COT antibody (bottom histogram) or without primary antibody as control (top histogram), followed by incubation with FITC labelled secondary antibody.