

CROT Polyclonal Antibody

Catalog number: 13543-1-AP

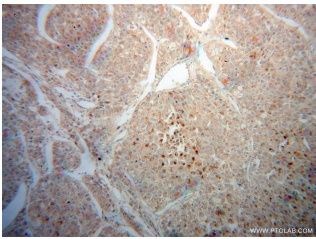
Size: 35 µg/150 µl

Source: Rabbit

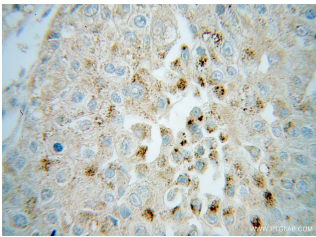
Isotype: IgG

Synonyms:

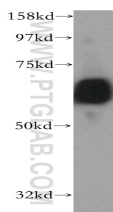
CROT; COT, CROT



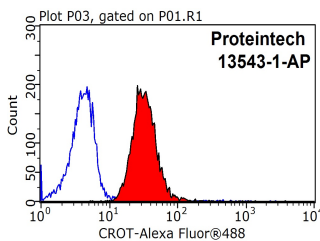
Immunohistochemical of paraffin-embedded human liver cancer using 13543-1-AP (CROT antibody) at dilution of 1:100 (under 10x lens)



Immunohistochemical of paraffin-embedded human liver cancer using 13543-1-AP (CROT antibody) at dilution of 1:100 (under 40x lens)



mouse kidney tissue were subjected to SDS PAGE followed by western blot with 13543-1-AP (CROT antibody) at dilution of 1:1500



1X10⁶ HepG2 cells were stained with 0.2ug CROT antibody (13543-1-AP, red) and control antibody (blue).

Background

CROT, also named as COT, belongs to the carnitine/choline acetyltransferase family. It is a beta-oxidation of fatty acids. The highest activity concerns the C6 to C10 chain length substrate. CROT converts the end product of pristanic acid beta oxidation, 4,8-dimethylnonanoyl-CoA, to its corresponding carnitine ester. Carnitine palmitoyltransferase (CPT) deficiencies are common disorders of mitochondrial fatty acid oxidation. The CPT system is made up of two separate proteins located in the outer (CPT1) and inner (CPT2) mitochondrial membranes. CROT is an active forms for carnitine octanoyltransferase. This antibody can bind the close sequences genes.

Applications

Tested applications:	ELISA, WB, IHC, FC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated CROT MW:	612aa, 66 kDa
Observed CROT MW:	65-70kd
Positive WB detected in	Mouse kidney tissue
Positive IHC detected in	Human liver cancer tissue
Positive FC detected in	HepG2 cells
Recommended dilution:	WB: 1:500-1:5000
	IHC: 1:20-1:200
	FC: N/A

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag4486
GenBank accession number:	BC039004
Gene ID (NCBI):	54677
Full name:	Carnitine O-octanoyltransferase

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.

Fixed with 90% MeOH
blocked with 3% BSA (30
min). Alexa Fluor 488-
conjugated AffiniPure Goat
Anti-Rabbit IgG(H+L) with
dilution 1:1500.