

CROT Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9380a

Specification

CROT Antibody (N-term) - Product Information

| | |
|-------------------|------------------------|
| Application | WB, IHC-P, FC,E |
| Primary Accession | O9UKG9 |
| Reactivity | Human, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 70178 |
| Antigen Region | 49-79 |

CROT Antibody (N-term) - Additional Information

Gene ID 54677

Other Names

Peroxisomal carnitine O-octanoyltransferase, COT, CROT, COT

Target/Specificity

This CROT antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 49-79 amino acids from the N-terminal region of human CROT.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CROT Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CROT Antibody (N-term) - Protein Information

Name CROT

Synonyms COT

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.

Cellular Location

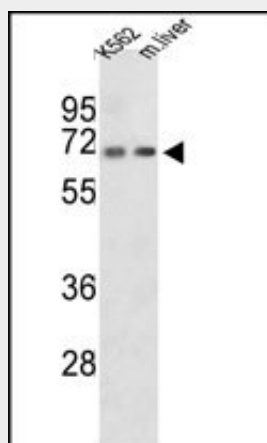
Peroxisome.

CROT Antibody (N-term) - Protocols

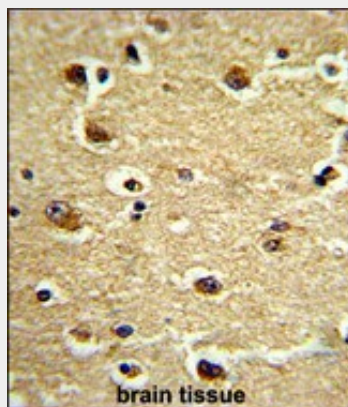
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

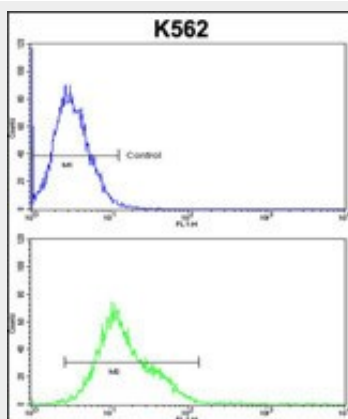
CROT Antibody (N-term) - Images



Western blot analysis of CROT Antibody (N-term) (Cat. #AP9380a) in K562 cell line and mouse liver tissue lysates (35ug/lane). CROT (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with CROT Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



CROT Antibody (N-term)(Cat. #AP9380a) flow cytometric analysis of k562 cells (bottom histogram) compared to a negative control cell (top histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

CROT Antibody (N-term) - Background

CROT 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 (N-term) - References

- Li, Y.L., et al. FEBS J. 276(1):303-314(2009)
- Morillas, M., et al. J. Biol. Chem. 277(13):11473-11480(2002)
- van der Leij, F.R., et al. Mol. Genet. Metab. 71 (1-2), 139-153 (2000) :
- Ferdinandusse, S., et al. Biochem. Biophys. Res. Commun. 263(1):213-218(1999)