

MUT Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP22355c

Product Information

Application	WB, IF, E
Primary Accession	<u>P22033</u>
Other Accession	<u>Q5RFN2</u>
Reactivity	Human, Mouse
Predicted	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB57881
Calculated MW	83134

Additional Information

Gene ID	4594
Other Names	Methylmalonyl-CoA mutase, mitochondrial, MCM, 5.4.99.2, Methylmalonyl-CoA isomerase, MUT
Target/Specificity	This MUT antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 492-526 amino acids from the Central region of human MUT.
Dilution	WB~~1:2000 IF~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
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	MUT Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MMUT (<u>HGNC:7526</u>)
Function	Catalyzes the reversible isomerization of methylmalonyl-CoA (MMCoA) (generated from branched-chain amino acid metabolism and degradation of dietary odd chain fatty acids and cholesterol) to succinyl-CoA

Cellular Location

Mitochondrion matrix. Mitochondrion. Cytoplasm

Background

Involved in the degradation of several amino acids, odd- chain fatty acids and cholesterol via propionyl-CoA to the tricarboxylic acid cycle. MCM has different functions in other species.

References

Jansen R.,et al.Genomics 4:198-205(1989). Nham S.U.,et al.Genomics 8:710-716(1990). Ota T.,et al.Nat. Genet. 36:40-45(2004). Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases. Mungall A.J.,et al.Nature 425:805-811(2003).

Images



paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Hela (human cervical epithelial adenocarcinoma cell line) cells labeling MUT with AP22355c at 1/25 dilution, followed by Dylight® 488-conjugated goat anti-rabbit IgG (1583138) secondary antibody at 1/200 dilution (green). Immunofluorescence image showing cytoplasm mainly and mitochondrion staining on Hela cell line. Cytoplasmic actin is detected with Dylight® 554 Phalloidin (PD18466410) at 1/100 dilution (red).The nuclear counter stain is DAPI (blue).

Immunofluorescent analysis of 4%



All lanes : Anti-MUT Antibody (Center) at 1:2000 dilution Lane 1: Human liver lysate Lane 2: Mouse liver lysate Lane 3: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : kDa Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes : Anti-MUT Antibody (Center) at 1:2000 dilution Lane 1: K562 whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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