

# MUT Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22354a

## Product Information

---

<b>Application</b>	WB, IF, IHC-P-Leica, E
<b>Primary Accession</b>	<a href="#">P22033</a>
<b>Other Accession</b>	<a href="#">Q9GK13</a> , <a href="#">Q8HXX1</a> , <a href="#">P16332</a> , <a href="#">Q5RFN2</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Mouse, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB57882
<b>Calculated MW</b>	83134

## Additional Information

---

<b>Gene ID</b>	4594
<b>Other Names</b>	Methylmalonyl-CoA mutase, mitochondrial, MCM, 5.4.99.2, Methylmalonyl-CoA isomerase, MUT
<b>Target/Specificity</b>	This MUT antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 32-66 amino acids from the human region of human MUT.
<b>Dilution</b>	WB~~1:2000 IF~~1:25 IHC-P-Leica~~1:250 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	MUT Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

<b>Name</b>	MMUT ( <a href="#">HGNC:7526</a> )
<b>Function</b>	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 (3-carboxypropionyl-CoA), a key intermediate of the tricarboxylic acid cycle.

## 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.

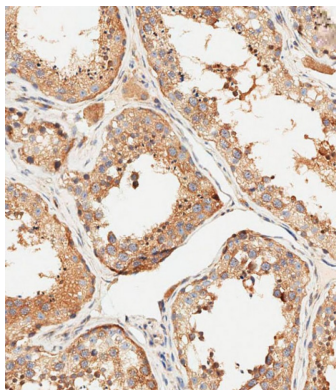
## References

---

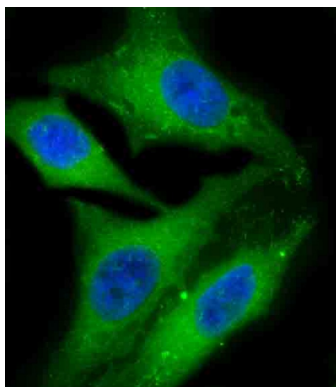
Jansen R.,et al.Genomics 4:198-205(1989).  
Nham S.U.,et al.Genomics 8:710-716(1990).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Kalnina N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.  
Mungall A.J.,et al.Nature 425:805-811(2003).

## Images

---

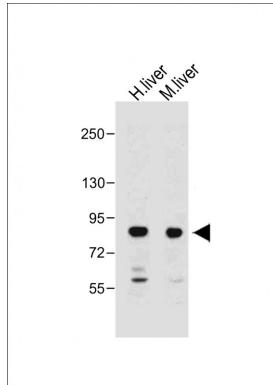
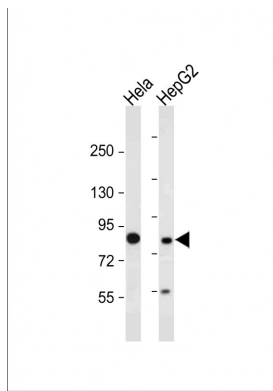


Immunohistochemical analysis of paraffin-embedded human testis tissue using AP22354a performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/250) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.



Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human cervical epithelial adenocarcinoma cell line) cells labeling MUT with AP22354a 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 and weak nucleus 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).

All lanes : Anti-MUT Antibody (N-Term) at 1:2000 dilution  
Lane 1: HeLa whole cell lysate Lane 2: HepG2 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.



All lanes : Anti-MUT Antibody (N-Term) at 1:2000 dilution  
 Lane 1: Human liver lysate Lane 2: Mouse liver 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'.