

ETFA Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11127b

Specification

ETFA Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	P13804
Other Accession	P13803 , Q99LC5 , Q8HXY0 , Q2KJE4 , NP_000117.1
Reactivity	Human, Mouse
Predicted	Bovine, Monkey, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35080
Antigen Region	276-304

ETFA Antibody (C-term) - Additional Information

Gene ID 2108

Other Names

Electron transfer flavoprotein subunit alpha, mitochondrial, Alpha-ETF, ETFA

Target/Specificity

This ETFA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 276-304 amino acids from the C-terminal region of human ETFA.

Dilution

WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

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

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

ETFA Antibody (C-term) - Protein Information

Name ETFA

Function Heterodimeric electron transfer flavoprotein that accepts electrons from several mitochondrial dehydrogenases, including acyl-CoA dehydrogenases, glutaryl-CoA and sarcosine dehydrogenase (PubMed:[10356313](#), PubMed:[15159392](#), PubMed:[15975918](#), PubMed:[27499296](#), PubMed:[9334218](#)). It transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (PubMed:[9334218](#)). Required for normal mitochondrial fatty acid oxidation and normal amino acid metabolism (PubMed:[12815589](#), PubMed:[1430199](#), PubMed:[1882842](#)).

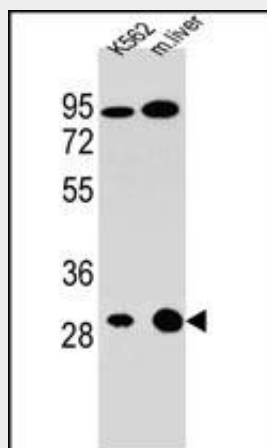
Cellular Location

Mitochondrion matrix.

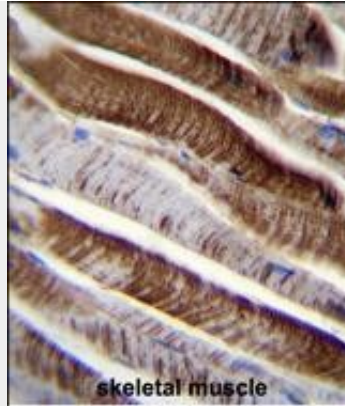
ETF A Antibody (C-term) - Protocols

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

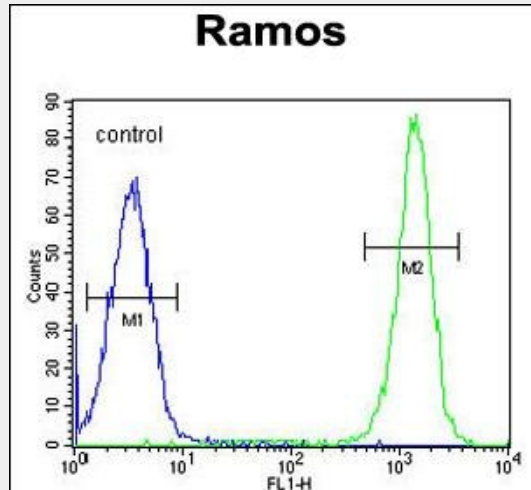
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ETF A Antibody (C-term) - Images

ETF A Antibody (C-term) (Cat. #AP11127b) western blot analysis in K562 cell line and mouse liver tissue lysates (35ug/lane). This demonstrates the ETF A antibody detected the ETF A protein (arrow).



ETF A Antibody (C-term) (Cat. #AP11127b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of ETF A Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ETF A Antibody (C-term) (Cat. #AP11127b) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ETF A Antibody (C-term) - Background

ETF A participates in catalyzing the initial step of the mitochondrial fatty acid beta-oxidation. It shuttles electrons between primary flavoprotein dehydrogenases and the membrane-bound electron transfer flavoprotein ubiquinone oxidoreductase. Defects in electron-transfer-flavoprotein have been implicated in type II glutaric aciduria in which multiple acyl-CoA dehydrogenase deficiencies result in large excretion of glutaric, lactic, ethylmalonic, butyric, isobutyric, 2-methyl-butyr ic, and isovaleric acids. Two transcript variants encoding different isoforms have been found for this gene.

ETF A Antibody (C-term) - References

Ohkuma, A., et al. Muscle Nerve 39(3):333-342(2009) Chiong, M.A., et al. Mol. Genet. Metab. 92 (1-2), 109-114 (2007) : Olsen, J.V., et al. Cell 127(3):635-648(2006) Olsen, J.V., et al. Cell 127(3):635-648(2006) Schiff, M., et al. Mol. Genet. Metab. 88(2):153-158(2006)