

ETFA Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP20630c

Specification

ETFA Antibody (Center) - Product Information

Application	IF, WB,E
Primary Accession	P13804
Other Accession	Q8HXY0
Reactivity	Human, Mouse
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	35080

ETFA Antibody (Center) - Additional Information

Gene ID 2108

Other Names

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

Target/Specificity

This ETFA antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 192-226 amino acids from the Central region of human ETFA.

Dilution

IF~~1:25

WB~~1:1000

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 (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ETFA Antibody (Center) - 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

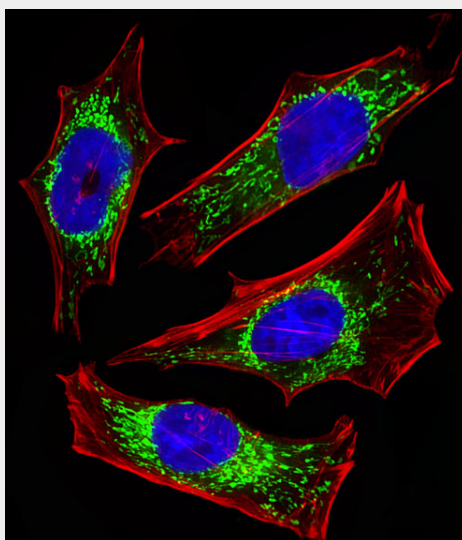
Mitochondrion matrix.

ETFFA Antibody (Center) - Protocols

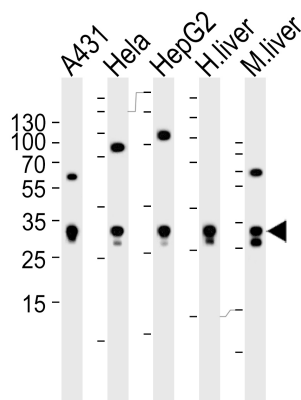
Provided below are standard protocols that you may find useful for product applications.

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

ETFFA Antibody (Center) - Images



Fluorescent image of HeLa cells stained with ETFFA Antibody (Center)(Cat#AP20630c). AP20630c was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). DAPI was used to stain the cell nuclear (blue). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).



Western blot analysis of lysates from A431, HeLa, HepG2 cell line , human liver and mouse liver tissue lysate(from left to right), using ETFA Antibody (Center)(Cat. #AP20630c). AP20630c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ETF A Antibody (Center) - Background

The electron transfer flavoprotein serves as a specific electron acceptor for several dehydrogenases, including five acyl- CoA dehydrogenases, glutaryl-CoA and sarcosine dehydrogenase. It transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase).

ETF A Antibody (Center) - References

- Finocchiaro G.,et al.J. Biol. Chem. 263:15773-15780(1988).
- Olsen R.K.J.,et al.Hum. Mutat. 22:12-23(2003).
- Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Zody M.C.,et al.Nature 440:671-675(2006).