

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

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

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](#)).

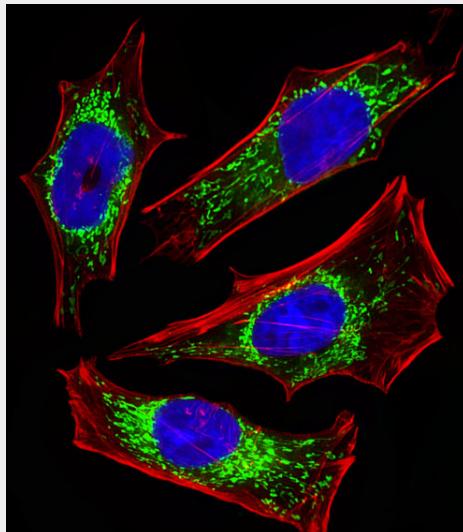
Cellular Location

Mitochondrion matrix.

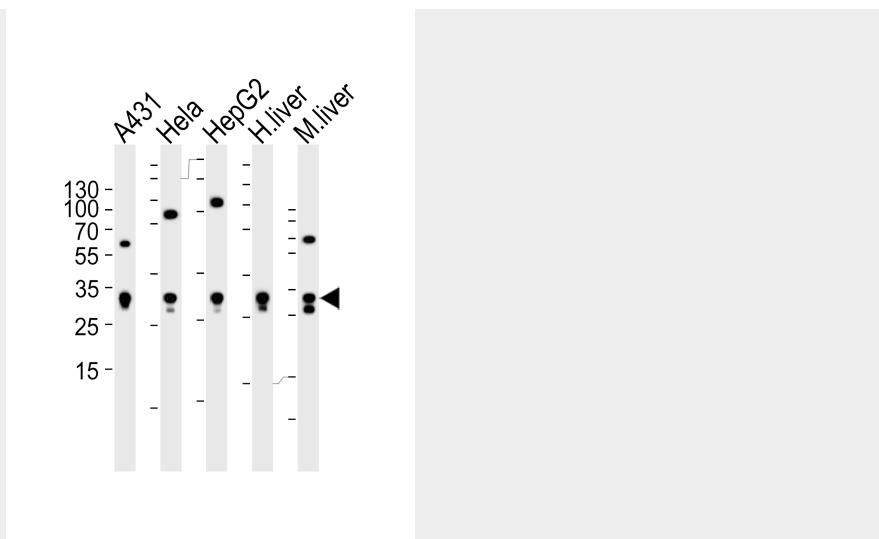
ETFA Antibody (Center) - Protocols

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](#)

ETFA Antibody (Center) - Images

Fluorescent image of HeLa cells stained with ETFA 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).



ETFA 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).

ETFA 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).
Kalinine 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).