

ETFA Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20630c

Specification

ETFA Antibody (Center) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW IF, WB,E <u>P13804</u> <u>O8HXY0</u> Human, Mouse Monkey Rabbit Polyclonal Rabbit IgG 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:<u>10356313</u>, PubMed:<u>15159392</u>, PubMed:<u>15975918</u>, PubMed:<u>27499296</u>, PubMed:<u>9334218</u>). It transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (PubMed:<u>9334218</u>). Required for normal mitochondrial fatty acid oxidation and normal amino acid metabolism (PubMed:<u>12815589</u>, PubMed:<u>1430199</u>, PubMed:<u>1882842</u>).

Cellular Location Mitochondrion matrix.

ETFA Antibody (Center) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>
- 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 lgG 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.

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). 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).