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ETFA Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP11127b

Specification

ETFA Antibody (C-term) Blocking peptide - Product Information

Primary Accession P13804

ETFA Antibody (C-term) Blocking peptide - Additional Information

Gene ID 2108

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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ETFA Antibody (C-term) Blocking peptide - 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:27499296, PubMed:15159392, PubMed:15975918, PubMed:9334218, PubMed:10356313). 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:1882842, PubMed:1430199).

Cellular Location
Mitochondrion matrix.

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ETFA Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

ETFA Antibody (C-term) Blocking peptide - Images

ETFA Antibody (C-term) Blocking peptide - Background

ETFA participates in catalyzing the initial step of themitochondrial fatty acid beta-oxidation. It shuttles electronsbetween primary flavoprotein dehydrogenases and the membrane-boundelectron transfer flavoprotein ubiquinone oxidoreductase. Defectsin electron-transfer-flavoprotein have been implicated in type IIglutaricaciduria in which multiple acyl-CoA dehydrogenasedeficiencies result in large excretion of glutaric, lactic,ethylmalonic, butyric, isobutyric, 2-methyl-butyric, and isovalericacids. Two transcript variants encoding different isoforms havebeen found for this gene.

ETFA Antibody (C-term) Blocking peptide - 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)