

ETFB (T-16): sc-242638

BACKGROUND

ETFB (electron transfer flavoprotein subunit β), also known as FP585, MADD or β -ETF, is a 255 amino acid protein that belongs to the ETF β -subunit/fixA family. Localizing to the mitochondrion matrix, ETFB is abundantly expressed in liver, heart and skeletal muscle, with weaker levels of expression found in brain, placenta, lung, kidney and pancreas. ETFB exists as a heterodimer of an α and β subunit; this dimer utilizes FAD as a cofactor and binds one AMP per subunit. The gene encoding ETFB maps to human chromosome 19q13.33 and mouse chromosome 7 B4. Defects to this gene have been linked to glutaric aciduria type 2B (GA2B), an autosomal recessive disorder of fatty acid, amino acid and choline metabolism. ETFB acts as a shuttle for electrons, transferring them between primary flavoprotein dehydrogenases and the membrane-bound electron transfer flavoprotein ubiquinone oxidoreductase.

CHROMOSOMAL LOCATION

Genetic locus: ETFB (human) mapping to 19q13.41; Etfb (mouse) mapping to 7 B4.

SOURCE

ETFB (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ETFB of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242638 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

ETFB (T-16) is recommended for detection of ETFB of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ETFB (T-16) is also recommended for detection of ETFB in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ETFB siRNA (h): sc-97745, ETFB siRNA (m): sc-144954, ETFB shRNA Plasmid (h): sc-97745-SH, ETFB shRNA Plasmid (m): sc-144954-SH, ETFB shRNA (h) Lentiviral Particles: sc-97745-V and ETFB shRNA (m) Lentiviral Particles: sc-144954-V.

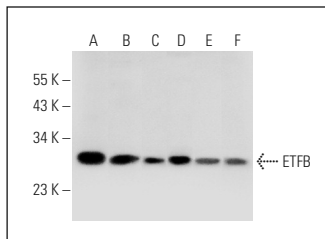
Molecular Weight of ETFB isoform 1/2: 28/37 kDa.

Positive Controls: human liver extract: sc-363766, mouse skeletal muscle extracts: sc-364250 or U-251-MG whole cell lysate: sc-364176.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ETFB (T-16): sc-242638. Western blot analysis of ETFB expression in human liver (A) and mouse skeletal muscle (B) tissue extracts and RT-4 (C), U-251-MG (D), Hep G2 (E) and MDA-MB-435S (F) whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **ETFB (F-1): sc-514807** or **ETFB (E-10): sc-514901**, our highly recommended monoclonal alternatives to ETFB (T-16).