**BACKGROUND**

ETFβ (electron transfer flavoprotein subunit β), also known as FP585, MAD or β-ETF, is a 255 amino acid protein that belongs to the ETF β-subunit/fixA family. Localizing to the mitochondrion matrix, ETFβ is abundantly expressed in liver, heart and skeletal muscle, with weaker levels of expression found in brain, placenta, lung, kidney and pancreas. ETFβ 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 ETFβ maps to human chromosome 19q13.41 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. ETFβ acts as a shuttle for electrons, transferring them between primary flavoprotein dehydrogenases and the membrane-bound electron transfer flavoprotein ubiquinone oxidoreductase.

**REFERENCES**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

ETFβ (F-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 182-197 within an internal region of ETFβ of human origin.

**PRODUCT**

Each vial contains 200 µg IgG κ light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Blocking peptide available for competition studies, sc-514807 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

ETFβ (F-1) is recommended for detection of ETFβ of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (1-2 µg per 100-500 µg 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).

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

**DATA**

**STORAGE**

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

**RESEARCH USE**

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

**PROTOCOLS**

See our website at www.scbt.com for detailed protocols and support products.