SANTA CRUZ BIOTECHNOLOGY, INC.

# MFT (B-25): sc-133785

## BACKGROUND

Folate is an essential vitamin that must be obtained from food intake through intestinal absorption in mammals. Folate and reduced folic acid derivatives bind to the folate receptor (FR) family, which mediates the endocytosis of 5-methyltetrahydofolate into the cell. MFT (mitochondrial folate transporter/carrier), also known as Solute carrier family 25 member 32 (SLC25A32), is a 315 amino acid multi-pass membrane protein that regulates the influx of folate into the mitochondria. MFT also functions to complement glycine auxotrophy. Mutations in the gene encoding MFT may be involoved in certain cases of multiple acyl-CoA dehydrogenase deficiency (MADD), in which there is no mutation in EFTA or EFTB genes. MADD is a autosomal recessively inherited disorder in which fatty acid, amino acid and choline metabolism is disrupted, leading to a clinical manisfestation of hypoglycemia, hypotonia, hepatomegaly, metabolic acidosis and dysplastic kidneys.

## REFERENCES


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## CHROMOSOMAL LOCATION

Genetic locus: SLC25A32 (human) mapping to 8q22.3; Slc25a32 (mouse) mapping to 15 B3.1.

## SOURCE

MFT (B-25) is an affinity purified rabbit polyclonal antibody raised against synthetic MFT peptide of human origin.

## PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

## APPLICATIONS

MFT (B-25) is recommended for detection of MFT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for MFT siRNA (h): sc-77512, MFT siRNA (m): sc-149413, MFT shRNA Plasmid (h): sc-77512-SH, MFT shRNA Plasmid (m): sc-149413-SH, MFT shRNA (h) Lentiviral Particles: sc-77512-V and MFT shRNA (m) Lentiviral Particles: sc-149413-V.

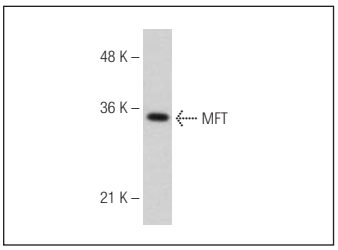
Molecular Weight of MFT: 35 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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).

## DATA




MFT (B-25): sc-133785. Western blot analysis of MFT expression in Hep G2 whole cell lysate.

## 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.