

LETM2 (T-13): sc-87805

BACKGROUND

LETM2 (leucine zipper-EF-hand containing transmembrane protein 2) is a 491 amino acid protein that is localized to the mitochondrial membrane and contains one LETM1 domain. Despite its name, LETM2, which is preferentially expressed in sperm and testis, does not contain any EF-hand domains. There are four isoforms of LETM2 that are produced as a result of alternative splicing events. A homolog of LETM2, LETM1 is thought to be involved in maintaining normal mitochondrial function and overall cell viability. Deletions in the gene encoding LETM1 are associated with Wolf-Hirschhorn syndrome (WHS), a congenital syndrome characterized by a number of abnormalities, including mental retardation, seizures, heart defects, fused teeth, hearing loss, a webbed neck and renal abnormalities. The LETM2 gene is located on chromosome 8, which is made up of nearly 146 million bases and encodes about 800 genes.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LETM2 (human) mapping to 8p11.23.

RESEARCH USE

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

SOURCE

LETM2 (T-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of LETM2 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-87805 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LETM2 (T-13) is recommended for detection of LETM2 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

LETM2 (T-13) is also recommended for detection of LETM2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for LETM2 siRNA (h): sc-77728, LETM2 shRNA Plasmid (h): sc-77728-SH and LETM2 shRNA (h) Lentiviral Particles: sc-77728-V.

Molecular Weight of LETM2: 56 kDa.

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) 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.

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.