

TMEM118 (B-21): sc-134096

BACKGROUND

The RING-type zinc finger motif is present in a number of viral and eukaryotic proteins and is made of a conserved cysteine-rich domain that is able to bind two zinc atoms. Proteins that contain this conserved domain are generally involved in the ubiquitination pathway of protein degradation. TMEM118, also known as RNFT2 (ring-finger protein, transmembrane 2) is a 444 amino acid multi-pass membrane protein that contains one RING-type zinc finger, suggesting a role in protein modification events. Multiple isoforms of TMEM118 exist due to alternative splicing events. The gene encoding TMEM118 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RNFT2 (human) mapping to 12q24.22; Rnft2 (mouse) mapping to 5 F.

STORAGE

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

SOURCE

TMEM118 (B-21) is an affinity purified rabbit polyclonal antibody raised against synthetic TMEM118 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

TMEM118 (B-21) is recommended for detection of TMEM118 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 TMEM118 siRNA (h): sc-96057, TMEM118 siRNA (m): sc-154353, TMEM118 shRNA Plasmid (h): sc-96057-SH, TMEM118 shRNA Plasmid (m): sc-154353-SH, TMEM118 shRNA (h) Lentiviral Particles: sc-96057-V and TMEM118 shRNA (m) Lentiviral Particles: sc-154353-V.

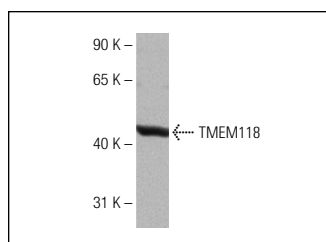
Molecular Weight of TMEM118: 49 kDa.

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



TMEM118 (B-21): sc-134096. Western blot analysis of TMEM118 expression in Hep G2 whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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