

GTSF1L (P-20): sc-86125

BACKGROUND

GTSF1L (gametocyte specific factor 1-like), also known as FAM112A, is a 148 amino acid protein that exists as 2 alternatively spliced isoforms. Belonging to the evolutionarily-conserved UPF0224 (FAM112) family, GTSF1L contains one CHHC-type zinc finger, which may have contributed to the architectural and functional diversity observed in the CHHC zinc finger containing proteins. GTSF1L's CHHC zinc finger does not show sequence similarity to any known or previously characterized zinc finger domain. Necessary for metal ion binding, GTSF1L is up-regulated in CD133⁺ cells. GTSF1L is located on chromosome 20, which consists of approximately 63 million bases and 600 genes. Chromosome 20 contains a region with numerous genes expressed in the epididymis which are thought to be important for seminal production and may be potential targets for male contraception.

REFERENCES

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2. Norgate, M., et al. 2007. Copper homeostasis gene discovery in *Drosophila melanogaster*. *Biometals* 20: 683-697.
3. Yoshimura, T., et al. 2007. Gene expression pattern of Cue110: a member of the uncharacterized UPF0224 gene family preferentially expressed in germ cells. *Gene Expr. Patterns* 8: 27-35.
4. Andreeva, A. and Tidow, H. 2008. A novel CHHC Zn-finger domain found in spliceosomal proteins and tRNA modifying enzymes. *Bioinformatics* 24: 2277-2280.
5. Yoshimura, T., et al. 2009. Gtsf1/Cue110, a gene encoding a protein with two copies of a CHHC Zn-finger motif, is involved in spermatogenesis and retrotransposon suppression in murine testes. *Dev. Biol.* 335: 216-227.
6. van der Heijden, G.W., et al. 2010. Bodies of evidence-compartmentalization of the piRNA pathway in mouse fetal prospermatogonia. *Curr. Opin. Cell Biol.* 2: 752-757.
7. SWISS-PROT/TrEMBL (Q9H1H1). World Wide Web URL: <http://www.uniprot.org/uniprot/Q9H1H1>

CHROMOSOMAL LOCATION

Genetic locus: GTSF1L (human) mapping to 20q13.12.

SOURCE

GTSF1L (P-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of GTSF1L of human origin.

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.

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-86125 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GTSF1L (P-20) is recommended for detection of GTSF1L 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).

GTSF1L (P-20) is also recommended for detection of GTSF1L in additional species, including equine, canine and bovine.

Suitable for use as control antibody for GTSF1L siRNA (h): sc-77303, GTSF1L shRNA Plasmid (h): sc-77303-SH and GTSF1L shRNA (h) Lentiviral Particles: sc-77303-V.

Molecular Weight of GTSF1L: 17 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.

RESEARCH USE

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