

GTSF1 (N-17): sc-240543

BACKGROUND

GTSF1 (gametocyte-specific factor 1), also known as FAM112B, is a 167 amino acid protein that contains a CHHC-type zinc finger and belongs to the UPF0224 (FAM112) family. Localizing to the cytoplasm, GTSF1 is expressed predominately in male germ cells, and may be required for spermatogenesis. The gene encoding GTSF1 maps to human chromosome 12q13.13. Encoding over 1,100 genes within 132 million bases, chromosome 12 makes up about 4.5% of the human genome. A number of skeletal deformities are linked to chromosome 12, including hypochondrogenesis, achondrogenesis and Kniest dysplasia. Noonan syndrome, which includes heart and facial developmental defects among the primary symptoms, is caused by a mutant form of PTPN11 gene product, SH-PTP2. Chromosome 12 is also home to a homeobox gene cluster which encodes crucial transcription factors for morphogenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: GTSF1 (human) mapping to 12q13.13; Gtsf1 (mouse) mapping to 15 F3.

SOURCE

GTSF1 (N-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of GTSF1 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-240543 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

GTSF1 (N-17) is recommended for detection of GTSF1 of mouse, rat and 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); non cross-reactive with GTSF1L.

GTSF1 (N-17) is also recommended for detection of GTSF1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for GTSF1 siRNA (h): sc-96000, GTSF1 siRNA (m): sc-145836, GTSF1 shRNA Plasmid (h): sc-96000-SH, GTSF1 shRNA Plasmid (m): sc-145836-SH, GTSF1 shRNA (h) Lentiviral Particles: sc-96000-V and GTSF1 shRNA (m) Lentiviral Particles: sc-145836-V.

Molecular Weight of GTSF1: 19 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.

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.