

SS18L2 (G-13): sc-100174

BACKGROUND

The SS18 (synovial sarcoma associated protein) family interacts with various proteins involved in gene regulation, possibly acting as transcriptional co-activators. Synovial sarcomas occur frequently in large joints in the extremities, and the majority of cases have a recurrent chromosomal translocation in which the 5-prime end of the SS18 gene is fused to the 3-prime end of SSX1, SSX2 or SSX4. SS18L2 (synovial sarcoma translocation gene on chromosome 18-like 2), also known as SYT homolog 2 or SS18-like protein 2, is a 77 amino acid protein belonging to the SS18 family. SS18L2, as well as SS18L1, are homologous to SS18. Like other members of the SS18 family, SS18L2 contains a single SNH domain, however it lacks the QPGY transactivation domain which is present in SS18L1. The gene encoding SS18L2 maps to human chromosome 3p22.1.

REFERENCES

1. de Bruijn, D.R., et al. 2001. Mapping and characterization of the mouse and human SS18 genes, two human SS18-like genes and a mouse Ss18 pseudogene. *Cytogenet. Cell Genet.* 92: 310-319.
2. Storlazzi, C.T., et al. 2003. A novel fusion gene, SS18L1/SSX1, in synovial sarcoma. *Genes Chromosomes Cancer* 37: 195-200.
3. Ishida, M., et al. 2004. Transcriptional co-activator activity of SYT is negatively regulated by BRM and Brg1. *Genes Cells* 9: 419-428.
4. de Bruijn, D.R., et al. 2006. Common origin of the human synovial sarcoma associated SS18 and SS18L1 gene loci. *Cytogenet. Genome Res.* 112: 222-226.
5. de Bruijn, D.R., et al. 2007. The (epi)genetics of human synovial sarcoma. *Genes Chromosomes Cancer* 46: 107-117.
6. Gordon, L., et al. 2007. Comparative analysis of chicken chromosome 28 provides new clues to the evolutionary fragility of gene-rich vertebrate regions. *Genome Res.* 17: 1603-1613.
7. Jasinska, A.J., et al. 2009. Identification of brain transcriptional variation reproduced in peripheral blood: an approach for mapping brain expression traits. *Hum. Mol. Genet.* 18: 4415-4427.

CHROMOSOMAL LOCATION

Genetic locus: SS18L2 (human) mapping to 3p22.1; Deb1 (mouse) mapping to 9 F4.

SOURCE

SS18L2 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SS18L2 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-100174 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SS18L2 (G-13) is recommended for detection of SS18L2 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).

Suitable for use as control antibody for SS18L2 siRNA (h): sc-78400, SS18L2 siRNA (m): sc-153834, SS18L2 shRNA Plasmid (h): sc-78400-SH, SS18L2 shRNA Plasmid (m): sc-153834-SH, SS18L2 shRNA (h) Lentiviral Particles: sc-78400-V and SS18L2 shRNA (m) Lentiviral Particles: sc-153834-V.

Molecular Weight of SS18L2: 9 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.