

Sil (T-16): sc-32619

BACKGROUND

TAL1 disruption at 1p32, a common rearrangement in the T cell acute lymphoblastic leukemia, usually results in the formation of a SCL interrupting locus (SIL)-TAL1 fusion product. SIL is an immediate early gene whose expression is associated with cell proliferation. The Sil protein exhibits ubiquitous expression in hematopoietic cell lines and tissues. However, Sil protein levels remain tightly regulated during the cell cycle, achieving peak levels in mitosis and diminishing on transition to G₁ phase. Overexpression of Sil in primary adenocarcinomas predicts metastatic spread, especially in lung tumors with increased mitotic activity.

REFERENCES

1. Aplan, P.D., et al. 1990. Disruption of the human SCL locus by "illegitimate" V-(D)-J recombinase activity. *Science* 250:1426-1429.
2. Aplan, P.D., et al. 1991. Structural characterization of SIL, a gene frequently disrupted in T cell acute lymphoblastic leukemia. *Mol. Cell. Biol.* 11: 5462-5469.

CHROMOSOMAL LOCATION

Genetic locus: STIL (human) mapping to 1p33; Stil (mouse) mapping to 4 D1.

SOURCE

Sil (T-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SCL interrupting locus of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-32619 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Sil (T-16) is recommended for detection of Sil 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)], 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).

Sil (T-16) is also recommended for detection of Sil in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Sil siRNA (h): sc-44775, Sil siRNA (m): sc-44776, Sil shRNA Plasmid (h): sc-44775-SH, Sil shRNA Plasmid (m): sc-44776-SH, Sil shRNA (h) Lentiviral Particles: sc-44775-V and Sil shRNA (m) Lentiviral Particles: sc-44776-V.

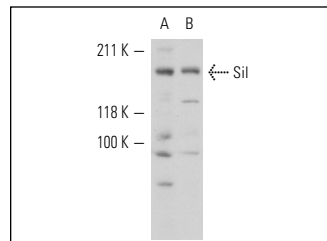
Molecular Weight of Sil: 143 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204K-562 whole cell lysate: sc-2203 or HEL 92.1.7 cell lysate: sc-2270.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Sil (T-16): sc-32619. Western blot analysis of Sil expression in K-562 (A) and HEL 92.1.7 (B) whole cell lysates.

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.



Try **Sil (A-6): sc-271910**, our highly recommended monoclonal alternative to Sil (T-16).