Slfn13 (S-14): sc-137776

SANTA CRUZ®

BIOTECHNOLOGY

The Power to Question

BACKGROUND

Schlafen family members are preferentially expressed in lymphoid tissues and are differentially regulated during thymocyte maturation. Schlafen proteins function as suppressors of cell growth and are thought to play a role in the maintenance of T cell quiescence. All members of the Schlafen family contain a conserved core domain and are substantially diversified at the N terminus. Changes in Schalfen protein expression may contribute to phenotypic differences seen in thymic subsets. Slfn13 (Schlafen family member 13), also known as SLFN10, is an 897 amino acid protein that exists as 2 alternatively spliced isoforms and is encoded by a gene that maps to human chromosome 17q12.

REFERENCES

1. Marrack, P., et al. 1997. Positive selection of thymocytes bearing $\alpha\beta$ T cell receptors. Curr. Opin. Immunol. 9: 250-255.

2. Mehr, R., et al. 1997. Regulatory feedback pathways in the thymus. Immunol. Today 18: 581-585.

3. Takeuchi, T., et al. 1997. Transgenic expression of a novel thymic epithelial cell antigen stimulates abberant development of thymocytes. J. Immunol. 159: 726-733.

4. Schwarz, D.A., et al. 1998. Schlafen, a new family of growth regulatory genes that affect thymocyte development. Immunity 9: 657-668.

5. Hershberger, P.A., et al. 1998. *In vitro* thymocyte maturation is associated with reduced cellular susceptibility to Fas-mediated apoptosis. Cell. Immunol. 185: 134-145.

6. Benoist, C., et al. 1999. T-cell development: a new marker of differentiation state. Curr. Biol. 9: R59-R61.

7. Neumann, B., et al. 2008. Subcellular localization of the Schlafen protein family. Biochem. Biophys. Res. Commun. 370: 62-66.

CHROMOSOMAL LOCATION

Genetic locus: SLFN13 (human) mapping to 17q12.

SOURCE

Slfn13 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Slfn13 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-137776 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

Slfn13 (S-14) is recommended for detection of Slfn13 of 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); non cross-reactive with other Slfn family members.

Suitable for use as control antibody for Slfn13 siRNA (h): sc-94095, Slfn13 shRNA Plasmid (h): sc-94095-SH and Slfn13 shRNA (h) Lentiviral Particles: sc-94095-V.

Molecular Weight of Slfn13 isoforms: 102/66 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, TF-1 cell lysate: sc-2412 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
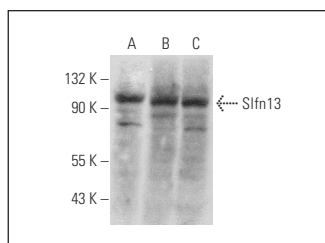
Slfn13 (S-14): sc-137776. Western blot analysis of Slfn13 expression in K-562 (**A**), HEL 92.1.7 (**B**) and TF-1 (**C**) whole cell lysates.

PROTOCOLS

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