

Slfn12L (V-14): sc-169355

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 Schlafen protein expression may contribute to phenotypic differences seen in thymic subsets. Slfn12L (schlafen family member 12-like) is a 620 amino acid single-pass membrane protein that exists as two alternatively spliced isoforms and belongs to the Schlafen family. The gene encoding Slfn12L maps to human chromosome 17q12.

REFERENCES

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- Mehr, R., et al. 1997. Regulatory feedback pathways in the thymus. *Immunol. Today* 18: 581-585.
- Takeuchi, T., et al. 1997. Transgenic expression of a novel thymic epithelial cell antigen stimulates aberrant development of thymocytes. *J. Immunol.* 159: 726-733.
- Schwarz, D.A., et al. 1998. Schlafen, a new family of growth regulatory genes that affect thymocyte development. *Immunity* 9: 657-668.
- 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.
- Benoist, C., et al. 1999. T-cell development: a new marker of differentiation state. *Curr. Biol.* 9: R59-R61.
- Neumann, B., et al. 2008. Subcellular localization of the Schlafen protein family. *Biochem. Biophys. Res. Commun.* 370: 62-66.

CHROMOSOMAL LOCATION

Genetic locus: SLFN12L (human) mapping to 17q12.

SOURCE

Slfn12L (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Slfn12L of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-169355 P, (100 μ g 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.

APPLICATIONS

Slfn12L (V-14) is recommended for detection of Slfn12L 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); non cross-reactive with Slfn12.

Suitable for use as control antibody for Slfn12L siRNA (h): sc-93763, Slfn12L shRNA Plasmid (h): sc-93763-SH and Slfn12L shRNA (h) Lentiviral Particles: sc-93763-V.

Molecular Weight of Slfn12L isoforms: 71 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.

PROTOCOLS

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