

Slfn11 (K-13): sc-136891

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. Members of the Schlafen family all contain a conserved core domain and are substantially diversified at the N-terminus. The prototype member of the Schlafen family, Slfn1, is transcriptionally unregulated during thymocyte positive selection, and the induction of Slfn1 leads to G₀/G₁ arrest, suggesting that Slfn1 participates in the regulation of cell cycle and potentially acts as a determining factor for apoptosis. Slfn1 and Slfn2 are both unregulated during the double-positive (DP) and single-positive (SP) stages of thymocyte development, whereas Slfn4 is down regulated at these stages. Changes in Schlafen protein expression may contribute to phenotypic differences seen in thymic subsets. Slfn11 (Schlafen family member 11), also known as SLFN8/9, is a 901 amino acid protein belonging to the Schlafen family.

CHROMOSOMAL LOCATION

Genetic locus: SLFN11 (human) mapping to 17q12.

SOURCE

Slfn11 (K-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Slfn11 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-136891 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

Slfn11 (K-13) is recommended for detection of Slfn11 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 Slfn11 siRNA (h): sc-93615, Slfn11 shRNA Plasmid (h): sc-93615-SH and Slfn11 shRNA (h) Lentiviral Particles: sc-93615-V.

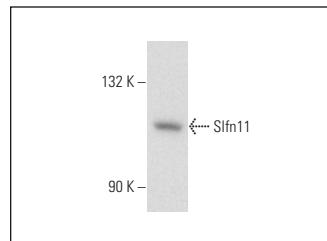
Molecular Weight of Slfn11: 103 kDa.

Positive Controls: Caki-1 cell lysate: sc-2224.

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



Slfn11 (K-13): sc-136891. Western blot analysis of Slfn11 expression in Caki-1 whole cell lysate.

SELECT PRODUCT CITATIONS

- Zoppoli, G., et al. 2012. Putative DNA/RNA helicase Schlafen-11 (SLFN11) sensitizes cancer cells to DNA-damaging agents. Proc. Natl. Acad. Sci. USA 109: 15030-15035.

PROTOCOLS

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



Try **Slfn11 (E-4): sc-374339** or **Slfn11 (D-2): sc-515071**, our highly recommended monoclonal alternatives to Slfn11 (K-13). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **Slfn11 (E-4): sc-374339**.