

SCML1 (N-15): sc-240853



The Power to Question

BACKGROUND

Putative polycomb group (PcG) proteins assemble into multimeric protein complexes, which are involved in maintaining the transcriptional repressive state of genes over successive cell generations. SCML1 (sex comb on midleg-like 1 (*Drosophila*)), is a 329 amino acid PcG protein belonging to the SCM family. Localizing to nucleus, SCML1 plays a role in testis development, spermatogenesis and embryonal development. While ubiquitously expressed, SCML1 is found at highest levels in adult skeletal muscle, heart and fetal liver. SCML1 contains one SAM (sterile α motif) domain and is encoded by a gene that spans 18 kb, contains 6 exons, maps to human chromosome Xp22.13, and is transcribed from telomere to centromere. Three SCML1 isoforms exist as a result of alternative splicing events.

REFERENCES

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2. Montini, E., Buchner, G., Spalluto, C., Andolfi, G., Caruso, A., den Dunnen, J.T., Trump, D., Rocchi, M., Ballabio, A. and Franco, B. 1999. Identification of SCML2, a second human gene homologous to the *Drosophila* sex comb on midleg (Scm): A new gene cluster on Xp22. *Genomics* 58: 65-72.
3. Online Mendelian Inheritance in Man, OMIM™. 2000. Johns Hopkins University, Baltimore, MD. MIM Number: 300227. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
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CHROMOSOMAL LOCATION

Genetic locus: SCML1 (human) mapping to Xp22.13.

SOURCE

SCML1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of SCML1 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-240853 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

SCML1 (N-15) is recommended for detection of SCML1 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 SCML2 or SCML4.

Suitable for use as control antibody for SCML1 siRNA (h): sc-90913, SCML1 shRNA Plasmid (h): sc-90913-SH and SCML1 shRNA (h) Lentiviral Particles: sc-90913-V.

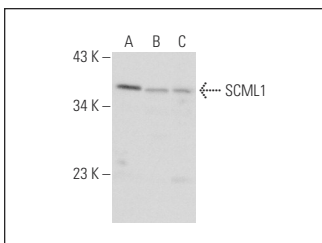
Molecular Weight of SCML1: 37 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or A-431 whole cell lysate: sc-2201.

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



SCML1 (N-15): sc-240853. Western blot analysis of SCML1 expression in HeLa (A), Jurkat (B) and A-431 (C) nuclear extracts.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

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Try **SCML1 (8-RY28): sc-135622**, our highly recommended monoclonal alternative to SCML1 (N-15).