

Sel-1L (T-17): sc-48081

BACKGROUND

Sel-1L resides mainly in the cytoplasm but also in the nuclei of normal pancreas cells. It has antiproliferative properties, including the ability to hinder tumor cell growth in human breast, pancreas, esophageal and prostate cancers by remodeling the extracellular matrix, which creates a micro-environment that is unfavorable to invasive growth. Sel-1L may also play a role in TGF β signaling. Approximately two thirds of breast tumors exhibit drastic downregulation or absence of Sel-1L expression, which causes cell-matrix interactions and collagen binding to be disrupted. It has been hypothesized that Sel-1L may mediate cellular changes that promote the transition from a normal mucosa to a neoplastic lesion, suggesting that Sel-1L may be useful for identifying patients who have a high risk of developing cancer.

REFERENCES

- Orlandi, R., et al. 2002. Sel-1L expression decreases breast tumor cell aggressiveness *in vivo* and *in vitro*. *Cancer Res.* 62: 567-574.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602329. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Cattaneo, M., et al. 2004. Identification of a region within Sel-1L protein required for tumour growth inhibition. *Gene* 326: 149-156.
- Granelli, P., et al. 2004. Sel-1L and squamous cell carcinoma of the esophagus. *Clin. Cancer Res.* 10: 5857-5861.
- Diaferia, G., et al. 2004. RNA-mediated interference indicates that Sel-1L plays a role in pancreatic β cell growth. *DNA Cell Biol.* 23: 510-518.

CHROMOSOMAL LOCATION

Genetic locus: SEL1L (human) mapping to 14q31.1; Sel1l (mouse) mapping to 12 D3.

SOURCE

Sel-1L (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Sel-1L 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-48081 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.

PROTOCOLS

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

APPLICATIONS

Sel-1L (T-17) is recommended for detection of Sel-1L of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for Sel-1L siRNA (h): sc-61514, Sel-1L siRNA (m): sc-61515, Sel-1L shRNA Plasmid (h): sc-61514-SH, Sel-1L shRNA Plasmid (m): sc-61515-SH, Sel-1L shRNA (h) Lentiviral Particles: sc-61514-V and Sel-1L shRNA (m) Lentiviral Particles: sc-61515-V.

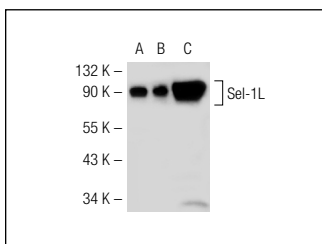
Molecular Weight of Sel-1L: 70 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, MCF7 whole cell lysate: sc-2206 or SK-BR-3 cell lysate: sc-2218.

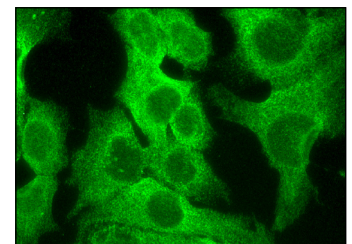
RECOMMENDED SECONDARY REAGENTS

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



Sel-1L (T-17): sc-48081. Western blot analysis of Sel-1L expression in non-transfected 293T: sc-117752 (A), mouse Sel-1L transfected 293T: sc-123434 (B) and Hep G2 (C) whole cell lysates.



Sel-1L (T-17): sc-48081. Immunofluorescence staining of formalin-fixed HepG2 cells showing cytoplasmic localization.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **Sel-1L (F-3): sc-377350** or **Sel-1L (G-11): sc-377351**, our highly recommended monoclonal alternatives to Sel-1L (T-17).