SANTA CRUZ BIOTECHNOLOGY, INC.

Sel-1L (H-57): sc-134519

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 TGFβ 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

1. Orlandi, R., et al. 2002. Sel-1L expression decreases breast tumor cell aggressiveness *in vivo* and *in vitro*. Cancer Res. 62: 567-574.
2. 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/
3. Cattaneo, M., et al. 2004. Identification of a region within Sel-1L protein required for tumour growth inhibition. Gene 326: 149-156.
4. Granelli, P., et al. 2004. Sel-1L and squamous cell carcinoma of the esophagus. Clin. Cancer Res. 10: 5857-5861.
5. 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.
6. Cattaneo, M., et al. 2005. Sel-1L affects human pancreatic cancer cell cycle and invasiveness through modulation of PTEN and genes related to cell-matrix interactions. Neoplasia 7: 1030-1038.
7. Bianchi, L., et al. 2005. Protein profile changes in the human breast cancer cell line MCF-7 in response to Sel-1L gene induction. Proteomics 5: 2433-2442.

CHROMOSOMAL LOCATION

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

SOURCE

Sel-1L (H-57) is a rabbit polyclonal antibody raised against amino acids 417-473 mapping within an internal region of Sel-1L 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.

STORAGE

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

APPLICATIONS

Sel-1L (H-57) is recommended for detection of Sel-1L of mouse, rat and 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).

Sel-1L (H-57) is also recommended for detection of Sel-1L in additional species, including equine, canine, bovine, porcine and avian.

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

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.