SANTA CRUZ BIOTECHNOLOGY, INC.

Sel-1L (N-15): sc-48080

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 with the ability to hinder tumor cell growth in human breast, pancreas, esophageal, and prostate cancers. Sel-1L does this by remodeling the extracellular matrix which creates a microenvironment that is unfavorable to invasive growth. It 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 the 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 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. Saltini, G., et al. 2004. Identification of a novel polymorphism in the Fibronectin type II domain of the Sel-1L gene and possible relation to the persistent hyperinsulinemic hypoglycemia of infancy. Mutat. Res. 554: 159-163.

CHROMOSOMAL LOCATION

Genetic locus: SEL1L (human) mapping to 14q31.1.

SOURCE

Sel-1L (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus 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.

Blocking peptide available for competition studies, sc-48080 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.

APPLICATIONS

Sel-1L (N-15) is recommended for detection of Sel-1L 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).

Sel-1L (N-15) is also recommended for detection of Sel-1L in additional species, including equine, canine, bovine and porcine.

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

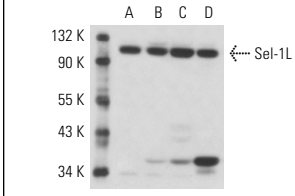
Molecular Weight of Sel-1L: 70 kDa.

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 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 (N-15): sc-48080. Western blot analysis of Sel-1L expression in Hep G2 (**A**), SK-BR-3 (**B**), MCF7 (**C**) and SCC-4 (**D**) whole cell lysates.

RESEARCH USE

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