

Sel-1L (F-3): sc-377350

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.

CHROMOSOMAL LOCATION

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

SOURCE

Sel-1L (F-3) is a mouse monoclonal antibody raised against amino acids 417-473 mapping within an internal region of Sel-1L of human origin.

PRODUCT

Each vial contains 200 μ g IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Sel-1L (F-3) is available conjugated to agarose (sc-377350 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-377350 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-377350 PE), fluorescein (sc-377350 FITC), Alexa Fluor® 488 (sc-377350 AF488), Alexa Fluor® 546 (sc-377350 AF546), Alexa Fluor® 594 (sc-377350 AF594) or Alexa Fluor® 647 (sc-377350 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-377350 AF680) or Alexa Fluor® 790 (sc-377350 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Sel-1L (F-3) is recommended for detection of Sel-1L of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), immunohistochemistry (including paraffin-embedded sections) (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 (F-3) 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 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.

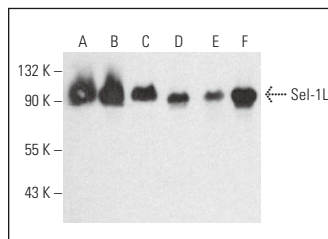
Molecular Weight of Sel-1L: 70 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, SCC-4 whole cell lysate: sc-364363 or NIH/3T3 whole cell lysate: sc-2210.

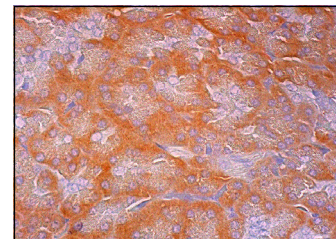
STORAGE

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

DATA



Sel-1L (F-3): sc-377350. Western blot analysis of Sel-1L expression in MCF7 (A), SCC-4 (B), Hep G2 (C), NIH/3T3 (D), C3H/10T1/2 (E) and RIN-m5F (F) whole cell lysates.



Sel-1L (F-3): sc-377350. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of exocrine glandular cells.

SELECT PRODUCT CITATIONS

1. Quan, H., et al. 2018. The transcriptional profiles and functional implications of long non-coding RNAs in the unfolded protein response. *Sci. Rep.* 8: 4981.
2. Smith, C.E., et al. 2021. A structurally conserved site in AUP1 binds the E2 enzyme UBE2G2 and is essential for ER-associated degradation. *PLoS Biol.* 19: e3001474.
3. Omura, T., et al. 2021. MicroRNA-101 regulates 6-hydroxydopamine-induced cell death by targeting suppressor/enhancer Lin-12-like in SH-SY5Y cells. *Front. Mol. Neurosci.* 14: 748026.
4. Wei, X., et al. 2022. α -1 receptor attenuates osteoclastogenesis by promoting ER-associated degradation of SERCA2. *EMBO Mol. Med.* 14: e15373.
5. Hromas, R., et al. 2022. BRCA1 mediates protein homeostasis through the ubiquitination of PERK and IRE1. *iScience* 25: 105626.
6. Pranke, I.M., et al. 2022. Keratin 8 is a scaffolding and regulatory protein of ERAD complexes. *Cell. Mol. Life Sci.* 79: 503.
7. Nishiguchi, H., et al. 2024. Luteolin protects against 6-hydroxydopamine-induced cell death via an upregulation of HRD1 and SEL1L. *Neurochem. Res.* 49: 117-128.

RESEARCH USE

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

PROTOCOLS

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

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