**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 down regulation 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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Sel-1L (G-11) 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 µg IgG2b kappa light chain 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.

**PROTOCOLS**

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

**APPLICATIONS**

Sel-1L (G-11) 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 µg per 100-500 µg 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 (G-11) 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: NCI-H929 whole cell lysate: sc-364786, U-87 MG cell lysate: sc-2411 or C3H/10T1/2 cell lysate: sc-3801.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), 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-2030 (0.5 ml agarose/2.0 ml).


**DATA**

**RESEARCH USE**

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