

SVOPL (S-12): sc-137811

BACKGROUND

SVOPL (putative transporter SVOPL), also known as SV2-related protein-like, is a 492 amino acid multi-pass membrane protein belonging to the major facilitator superfamily. SVOPL is a paralog to synaptic vesicle protein (SVOP) that exists as two alternatively spliced isoforms. The gene encoding SVOPL maps to human chromosome 7q34. Chromosome 7 is approximately 158 million bases long, encodes over 1,000 genes and makes up approximately 5% of the human genome. Chromosome 7 has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome. Deletions of portions of the q arm of chromosome 7 are linked to myeloid disorders, including acute myelogenous leukemia and myelodysplasia.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SVOPL (human) mapping to 7q34; Svo1p (mouse) mapping to 6 B1.

SOURCE

SVOPL (S-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SVOPL of human origin.

STORAGE

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

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-137811 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SVOPL (S-12) is recommended for detection of SVOPL isoforms 1 and 2 of mouse, rat and human 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); non cross-reactive with SVOP.

SVOPL (S-12) is also recommended for detection of SVOPL isoforms 1 and 2 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for SVOPL siRNA (h): sc-89453, SVOPL siRNA (m): sc-153954, SVOPL shRNA Plasmid (h): sc-89453-SH, SVOPL shRNA Plasmid (m): sc-153954-SH, SVOPL shRNA (h) Lentiviral Particles: sc-89453-V and SVOPL shRNA (m) Lentiviral Particles: sc-153954-V.

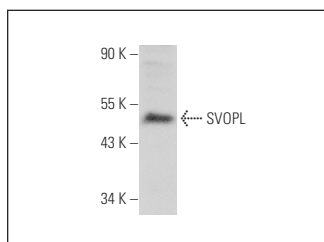
Molecular Weight of SVOPL isoforms 1/2: 54/37 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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



SVOPL (S-12): sc-137811. Western blot analysis of SVOPL expression in HeLa whole cell lysate.

RESEARCH USE

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