

SPNS3 (C-16): sc-130103

BACKGROUND

SPNS3 (spinster homolog 3) is a 512 amino acid multi-pass membrane protein that belongs to the spinster subfamily of major facilitator proteins and functions as a sphingolipid transporter. SPNS3 is produced as multiple alternatively spliced isoforms that are encoded by a gene which maps to human chromosome 17; a chromosome that comprises nearly 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is associated with malignant cell growth and Li-Fraumeni syndrome. Like p53, BRCA1 is directly involved in DNA repair, though specifically it is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes.

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CHROMOSOMAL LOCATION

Genetic locus: Spns3 (mouse) mapping to 11 B4.

SOURCE

SPNS3 (C-16) is a purified rabbit polyclonal antibody raised against a peptide mapping at the C-terminus of SPNS3 of mouse origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SPNS3 (C-16) is recommended for detection of SPNS3 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000).

Suitable for use as control antibody for SPNS3 siRNA (m): sc-153776, SPNS3 shRNA Plasmid (m): sc-153776-SH and SPNS3 shRNA (m) Lentiviral Particles: sc-153776-V.

Molecular Weight of SPNS3: 55 kDa.

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.

STORAGE

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

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.