

SID-2 (H-184): sc-134886

BACKGROUND

SID-1 and SID-2 belong to the systemic RNA interference defective-1 (SID1) family of transmembrane proteins. SID-1, originally identified in *C. elegans*, is an 827 amino acid long protein. It localizes to the cell membrane and contains 11 transmembrane domains. This suggests that SID-1 possibly functions as a channel protein. The overexpression of SID-1 enhances double stranded RNA (dsRNA) uptake in pancreatic ductal adenocarcinoma cells. SID-2, also first identified in *C. elegans*, is an 832 amino acid long protein with multiple transmembrane domains. At least two isoforms exist for SID-2 due to alternative splicing. Isoform 2 contains an additional 21 amino acids after residue 387 and has an alternate sequence that is eight amino acids shorter for residues 814 to 832 of isoform 1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SIDT2 (human) mapping to 11q23.3; Sidt2 (mouse) mapping to 9 A5.2.

SOURCE

SID-2 (H-184) is a rabbit polyclonal antibody raised against amino acids 1-184 mapping within an N-terminal extracellular domain of SID-2 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

SID-2 (H-184) is recommended for detection of SID-2 of mouse, rat and 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).

SID-2 (H-184) is also recommended for detection of SID-2 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for SID-2 siRNA (h): sc-72282, SID-2 siRNA (m): sc-72283, SID-2 shRNA Plasmid (h): sc-72282-SH, SID-2 shRNA Plasmid (m): sc-72283-SH, SID-2 shRNA (h) Lentiviral Particles: sc-72282-V and SID-2 shRNA (m) Lentiviral Particles: sc-72283-V.

Molecular Weight of SID-2: 104 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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