

SUSD1 (P-17): sc-244240

BACKGROUND

SUSD1 (sushi domain-containing protein 1) is a 747 amino acid single-pass type I membrane protein that exists as 3 alternatively spliced isoforms and contains 2 sushi (CCP/SCR) domains and 3 EGF-like domains. SUSD1 interacts with ATF-7IP, a multifunctional nuclear protein that associates with heterochromatin and acts as either a transcriptional coactivator or corepressor. The gene that encodes SUSD1 contains 134,628 bases and maps to human chromosome 9q31.3. Housing over 900 genes, human chromosome 9 comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects, and familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

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CHROMOSOMAL LOCATION

Genetic locus: SUSD1 (human) mapping to 9q31.3; Susd1 (mouse) mapping to 4 B3.

SOURCE

SUSD1 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SUSD1 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-244240 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SUSD1 (P-17) is recommended for detection of SUSD1 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 other SUSD family members.

SUSD1 (P-17) is also recommended for detection of SUSD1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SUSD1 siRNA (h): sc-92767, SUSD1 siRNA (m): sc-151508, SUSD1 shRNA Plasmid (h): sc-92767-SH, SUSD1 shRNA Plasmid (m): sc-151508-SH, SUSD1 shRNA (h) Lentiviral Particles: sc-92767-V and SUSD1 shRNA (m) Lentiviral Particles: sc-151508-V.

Molecular Weight of SUSD1 isoforms: 83/85/83 kDa.

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) 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.

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.