

# SUSD3 (I-17): sc-248741

## BACKGROUND

SUSD3 (sushi domain-containing protein 3) is a 255 amino acid single-pass membrane protein that exists as 3 alternatively spliced isoforms and contains one sushi (CCP/SCR) domain. While SUSD3 is highly expressed in bone marrow, kidney, testis, T-cells and thymus, it has been found that SUSD3 is downregulated in malignant breast cancer tissues. The gene that encodes SUSD3 contains 26,432 bases, produces 4 transcripts and maps to human chromosome 9q22.31. 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.

## REFERENCES

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- Zeit, M.J., et al. 2009. Organization of the amplified type I interferon gene cluster and associated chromosome regions in the interphase nucleus of human osteosarcoma cells. *Chromosome Res.* 17: 305-319.
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## CHROMOSOMAL LOCATION

Genetic locus: *Susd3* (mouse) mapping to 13 A5.

## SOURCE

SUSD3 (I-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of SUSD3 of mouse 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-248741 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

SUSD3 (I-17) is recommended for detection of SUSD3 of mouse and rat 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.

Suitable for use as control antibody for SUSD3 siRNA (m): sc-153938, SUSD3 shRNA Plasmid (m): sc-153938-SH and SUSD3 shRNA (m) Lentiviral Particles: sc-153938-V.

Molecular Weight of SUSD3 isoforms: 27/26/15 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.