

SURF-4 (F-14): sc-107302

BACKGROUND

SURF-4 (surfeit 4), also known as ERV29, is a 269 amino acid multi-pass membrane protein that localizes to the endoplasmic reticulum and contains several putative transmembrane regions. Existing as multiple alternatively spliced isoforms, SURF-4 is thought to be involved in protein transport between the endoplasmic reticulum and golgi compartments. Human SURF-4 shares 99% sequence identity with its mouse counterpart, strongly suggesting a conserved role between species. The gene encoding SURF-4 maps to human chromosome 9, which houses over 900 genes and 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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CHROMOSOMAL LOCATION

Genetic locus: SURF4 (human) mapping to 9q34.2; Surf4 (mouse) mapping to 2 A3.

SOURCE

SURF-4 (F-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SURF-4 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 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-107302 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SURF-4 (F-14) is recommended for detection of SURF-4 of mouse, rat 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 family members SURF-1, SURF-2 or SURF-6.

SURF-4 (F-14) is also recommended for detection of SURF-4 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for SURF-4 siRNA (h): sc-92607, SURF-4 siRNA (m): sc-153935, SURF-4 shRNA Plasmid (h): sc-92607-SH, SURF-4 shRNA Plasmid (m): sc-153935-SH, SURF-4 shRNA (h) Lentiviral Particles: sc-92607-V and SURF-4 shRNA (m) Lentiviral Particles: sc-153935-V.

Molecular Weight of SURF-4: 30 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or Jurkat whole cell lysate: sc-2204.

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.

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.


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Try **SURF-4 (FT-3): sc-135573**, our highly recommended monoclonal alternative to SURF-4 (F-14).