

# SURF-2 (P-15): sc-165626

## BACKGROUND

SURF-2 (surfeit locus protein 2) is a 256 amino acid protein that belongs to the SURF2 family and interacts with  $\beta$ -1,4-Gal-T3, uPAR and WDR20. The gene that encodes SURF-2 is located in the surfeit gene cluster, which is a group of very tightly linked genes that do not share sequence similarity. The SURF-2 gene maps to human chromosome 9q34.2 and shares a bidirectional promoter with SURF1, which is located on the opposite strand. The intergenic region between the SURF-1 and SURF-2 genes is expected to have bidirectional promoter activity, as is found in mouse. Although this region lacks a TATA box, it is GC-rich. 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.

## REFERENCES

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4. Duhig, T., et al. 1998. The human Surfeit locus. *Genomics* 52: 72-78.
5. Cottin, V., et al. 2007. Pulmonary vascular manifestations of hereditary hemorrhagic telangiectasia (rendu-osler disease). *Respiration* 74: 361-378.
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## CHROMOSOMAL LOCATION

Genetic locus: SURF2 (human) mapping to 9q34.2; Surf2 (mouse) mapping to 2 A3.

## SOURCE

SURF-2 (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SURF-2 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  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-165626 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

SURF-2 (P-15) is recommended for detection of SURF-2 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 other SURF family members.

SURF-2 (P-15) is also recommended for detection of SURF-2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for SURF-2 siRNA (h): sc-92780, SURF-2 siRNA (m): sc-153934, SURF-2 shRNA Plasmid (h): sc-92780-SH, SURF-2 shRNA Plasmid (m): sc-153934-SH, SURF-2 shRNA (h) Lentiviral Particles: sc-92780-V and SURF-2 shRNA (m) Lentiviral Particles: sc-153934-V.

Molecular Weight of SURF-2: 30 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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](http://www.scbt.com) or our catalog for detailed protocols and support products.