

SURF-6 (D-12): sc-132108

BACKGROUND

SURF-6 (surfeit locus protein-6) is a 361 amino acid protein that localizes to granular components of the nucleolus. Expressed ubiquitously with expression levels regulated during the cell cycle, SURF-6 is thought to function as a housekeeping protein that binds both RNA and DNA *in vitro* and may be involved in ribosome assembly and biosynthesis. In mice, cells lacking SURF-6 are nonviable, further implicating a role for SURF-6 in ribosome biogenesis and, possibly, proper cell cycle progression. Human SURF-6 shares structural similarity with its fish and mouse orthologs, suggesting an evolutionary conserved role between species. SURF-6 is encoded by a gene that is located on chromosome 9 in the surfeit gene locus, which is one of the tightest gene clusters in the human genome.

REFERENCES

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- Wolff, C.M., et al. 2002. Cloning and expression of the surfeit locus member SURF-6 during embryogenesis in *Xenopus laevis*. *DNA Seq.* 13: 149-152.
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CHROMOSOMAL LOCATION

Genetic locus: SURF6 (human) mapping to 9q34.2; Surf6 (mouse) mapping to 2 A3.

SOURCE

SURF-6 (D-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SURF-6 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-132108 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SURF-6 (D-12) is recommended for detection of SURF-6 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); non cross-reactive with other SURF family members.

Suitable for use as control antibody for SURF-6 siRNA (h): sc-92816, SURF-6 siRNA (m): sc-153936, SURF-6 shRNA Plasmid (h): sc-92816-SH, SURF-6 shRNA Plasmid (m): sc-153936-SH, SURF-6 shRNA (h) Lentiviral Particles: sc-92816-V and SURF-6 shRNA (m) Lentiviral Particles: sc-153936-V.

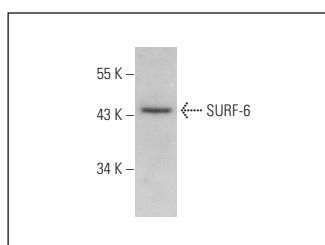
Molecular Weight of SURF-6: 41 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or human liver extract: sc-363766.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



SURF-6 (D-12): sc-132108. Western blot analysis of SURF-6 expression in human liver tissue extract.

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.