

# Su(fu) (M-15): sc-10934

## BACKGROUND

Su(fu) (for suppressor-of-fused) is a key negative regulator in the vertebrate Hedgehog signaling pathway. Su(fu) interacts with genes encoding proteins in this signal transduction pathway. In *Drosophila*, intracellular transduction of the Hedgehog pathway involves the release of a large complex containing Su(fu). Su(fu) inhibits the activity of the transcription factor Gli1 and interacts with Gli2, Gli3 and the serine/threonine kinase Fused. Su(fu) is widely expressed in adult and embryonic tissues with higher expression in tissues patterned by hedgehog signaling. The Su(fu) gene locus maps to a region that is deleted in glioblastomas, prostate cancer, malignant melanoma and endometrial cancer.

## REFERENCES

1. Ruiz i Altaba, A. 1997. Catching a GLI-mpse of hedgehog. *Cell* 90: 193-196.
2. Monnier, V., et al. 1998. Suppressor-of-fused links fused and *Cubitus interruptus* on the hedgehog signalling pathway. *Curr. Biol.* 8: 583-586.

## CHROMOSOMAL LOCATION

Genetic locus: SUFU (human) mapping to 10q24.32; Sufu (mouse) mapping to 19 C3.

## SOURCE

Su(fu) (M-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Su 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-10934 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Su(fu) (M-15) is recommended for detection of Su(fu) 54 kDa form (484 amino acid splice variant) 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).

Su(fu) (M-15) is also recommended for detection of Su(fu) 54 kDa form (484 amino acid splice variant) in additional species, including equine, canine and porcine.

Suitable for use as control antibody for Su(fu) siRNA (h): sc-36572, Su(fu) siRNA (m): sc-36573, Su(fu) shRNA Plasmid (h): sc-36572-SH, Su(fu) shRNA Plasmid (m): sc-36573-SH, Su(fu) shRNA (h) Lentiviral Particles: sc-36572-V and Su(fu) shRNA (m) Lentiviral Particles: sc-36573-V.

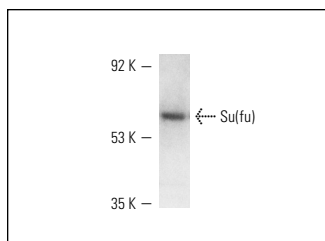
Molecular Weight of Su(fu): 54 kDa.

Positive Controls: C32 whole cell lysate: sc-2205, SK-N-SH cell lysate: sc-2410 or IMR-32 cell lysate: sc-2409.

## 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



Su(fu) (M-15): sc-10934. Western blot analysis of Su(fu) expression in IMR-32 whole cell lysate.

## SELECT PRODUCT CITATIONS

1. Callahan, C.A., et al. 2004. MIM/BEG4, a sonic hedgehog-responsive gene that potentiates GLI-dependent transcription. *Genes Dev.* 18: 2724-2729.
2. Jia, J., et al. 2009. Suppressor of fused inhibits mammalian hedgehog signaling in the absence of cilia. *Dev. Biol.* 330: 452-460.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

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Try **Su(fu) (F-4): sc-137014**, our highly recommended monoclonal alternative to Su(fu) (M-15).