

Fussel-18 (N-13): sc-242870

BACKGROUND

The Sloan lettering virus (Ski) family of nuclear oncoproteins act as transcriptional regulators of TGF- β by interacting directly with SMAD proteins. Fussel-18 (functional Smad-suppressing element on chromosome 18), also known as SKOR2 (Ski family transcriptional corepressor 2), LBX1 corepressor 1-like protein, ladybird homeobox corepressor 1-like protein or CORL2, is a 1,001 amino acid protein that belongs to the Ski family. Localizing to nucleus as well as cytoplasm, Fussel-18 is expressed in cerebellum, spinal cord and testis. Fussel-18 acts as an antagonist to TGF- β in the nervous system, possibly by functioning as a transcriptional repressor of SMAD2 and SMAD3. Existing as two alternatively spliced isoforms, the gene encoding Fussel-18 maps to human chromosome 18q21.1 and mouse chromosome 18 E3.

REFERENCES

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- Bennett, K.L., et al. 2010. HPV status-independent association of alcohol and tobacco exposure or prior radiation therapy with promoter methylation of FUSSEL18, EBF3, IRX1, and SEPT9, but not SLC5A8, in head and neck squamous cell carcinomas. *Genes Chromosomes Cancer* 49: 319-326.

CHROMOSOMAL LOCATION

Genetic locus: SKOR2 (human) mapping to 18q21.1; Skor2 (mouse) mapping to 18 E3.

SOURCE

Fussel-18 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Fussel-18 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242870 P, (100 μ g 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

Fussel-18 (N-13) is recommended for detection of Fussel-18 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).

Suitable for use as control antibody for Fussel-18 siRNA (m): sc-145276, Fussel-18 shRNA Plasmid (m): sc-145276-SH and Fussel-18 shRNA (m) Lentiviral Particles: sc-145276-V.

Molecular Weight of Fussel-18: 104 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 or our catalog for detailed protocols and support products.