

## Fussel-18 (G-20): sc-242872

### BACKGROUND

The Sloan-Kettering virus (Ski) family of nuclear oncoproteins act as transcriptional regulators of TGF- $\beta$  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- $\beta$  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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- Minaki, Y., et al. 2008. Identification of a novel transcriptional corepressor, Corl2, as a cerebellar Purkinje cell-selective marker. *Gene Expr. Patterns* 8: 418-423.
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- Jahchan, N.S. and Luo, K. 2010. SnoN in mammalian development, function and diseases. *Curr. Opin. Pharmacol.* 10: 670-675.
- 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 (G-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Fussel-18 of human origin.

### 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-242872 P, (100  $\mu$ 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 (G-20) 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).

Fussel-18 (G-20) is also recommended for detection of Fussel-18 in additional species, including equine, canine, bovine and porcine.

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