

FIR (C-13): sc-11097

BACKGROUND

Activation of FUSE, the far-upstream element, is required for the proper expression of the mammalian gene c-Myc. The binding of FBP (FUSE-binding protein) to FUSE is necessary for c-Myc expression. The FBP interacting repressor, FIR, binds to the central DNA-binding domain of FBP and can serve as an overriding negative regulator of c-Myc promoter activity. FIR interacts with the TFIID complex, which is a multifunctional, multisubunit RNA polymerase II transcription factor that interacts with several DNA-binding transactivators. FIR blocks activator-dependent, but not basal transcription through TFIID. FIR shares identity with seven in absentia (sia) binding protein 1. FIR is expressed in spleen, thymus, prostate, small intestine, colon and peripheral blood leukocytes, and with relatively higher levels of expression in testis and ovary.

REFERENCES

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3. Bazar, L., Harris, V., Sunitha, I., Hartmann, D. and Avigan, M. 1995. A transactivator of c-Myc is coordinately regulated with the proto-oncogene during cellular growth. *Oncogene* 10: 2229-2238.
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6. Liu, J., Liusheng, H., Collins, I., Ge, H., Libuitti, D., Li, J., Egly, J-M. and Levens, D. 2000. The FBP interacting repressor targets TFIID to inhibit activated transcription. *Mol. Cell* 5: 331-341.

CHROMOSOMAL LOCATION

Genetic locus: PUF60 (human) mapping to 8q24.3; Puf60 (mouse) mapping to 15 D3.

SOURCE

FIR (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FIR 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-11097 P, (100 µg 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

FIR (C-13) is recommended for detection of FIR 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).

FIR(C-13) is also recommended for detection of FIR in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FIR siRNA (h): sc-105353, FIR siRNA (m): sc-145186, FIR shRNA Plasmid (h): sc-105353-SH, FIR shRNA Plasmid (m): sc-145186-SH, FIR shRNA (h) Lentiviral Particles: sc-105353-V and FIR shRNA (m) Lentiviral Particles: sc-145186-V.

Molecular Weight of FIR: 60 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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.



Try **FIR (E-6): sc-398799** or **FIR (B-5): sc-398785**, our highly recommended monoclonal alternatives to FIR (C-13).