

FBP1 (N-15): sc-11098

BACKGROUND

Activation of FUSE, the far upstream element, is required for the proper expression of the mammalian gene c-Myc in undifferentiated cells. The binding of FBP1 (FUSE-binding protein or far upstream element-binding protein) to FUSE is necessary for c-Myc expression, indicating that FBP1 functions as a growth-dependent regulator of c-Myc expression. Isolated from proliferating HL-60 cells, FBP1 (FBP), FBP2 and FBP3 comprise a family of single-stranded DNA-binding proteins that specifically bind to FUSE elements. The FBP transcription factors share a conserved central DNA-binding domain and show significant homology in their carboxyl-terminal activation domains. Expression of FBP1 is detected in undifferentiated cells and is substantially decreased following cellular differentiation.

CHROMOSOMAL LOCATION

Genetic locus: FUBP1 (human) mapping to 1p31.1; Fubp1 (mouse) mapping to 3 H3.

SOURCE

FBP1 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FBP1 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-11098 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-11098 X, 200 µg/0.1 ml.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

FBP1 (N-15) is recommended for detection of FBP1 and, to a lesser extent, FBP2 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).

FBP1 (N-15) is also recommended for detection of FBP1 and, to a lesser extent, FBP2 in additional species, including equine, canine, bovine, porcine and avian.

FBP1 (N-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

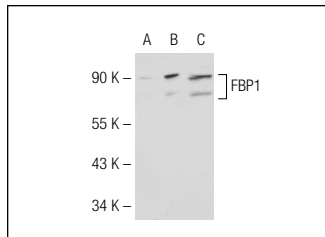
Molecular Weight of FBP1: 74 kDa.

Positive Controls: FBP1 (m2): 293T Lysate: sc-120212, HeLa whole cell lysate: sc-2200 or HL-60 whole cell lysate: sc-2209.

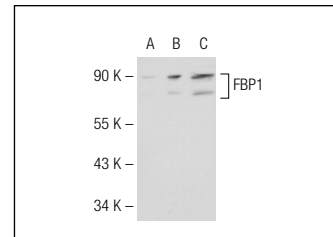
RECOMMENDED SECONDARY REAGENTS

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



FBP1 (N-15): sc-11098. Western blot analysis of FBP1 expression in non-transfected 293T: sc-117752 (A), mouse FBP1 transfected 293T: sc-120212 (B) and HL-60 (C) whole cell lysates.



FBP1 (N-15): sc-11098. Western blot analysis of FBP1 expression in non-transfected 293T: sc-117752 (A), mouse FBP1 transfected 293T: sc-120211 (B) and HL-60 (C) whole cell lysates.

SELECT PRODUCT CITATIONS

- Rabenhorst, U., Beinoraviciute-Kellner, R., Brezniceanu, M.L., Joos, S., Devens, F., Lichter, P., Rieker, R.J., Trojan, J., Chung, H.J., Levens, D.L. and Zörnig, M. 2009. Overexpression of the far upstream element binding protein 1 in hepatocellular carcinoma is required for tumor growth. *Hepatology* 50: 1121-1129.

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.



Try **FBP1 (G-8): sc-271241** or **FBP1 (A-4): sc-393928**, our highly recommended monoclonal alternatives to FBP1 (N-15).