

KLF3 (S-13): sc-33338

BACKGROUND

Krüppel-like factors (KLFs) comprise a family of evolutionarily conserved zinc finger-containing transcription factors with diverse regulatory functions in cell growth, proliferation, differentiation and embryogenesis. Individual members of the Sp1-like/KLF family can function either as activators or repressors, depending on which promoter they bind and the coregulators with which they interact. KLF6, also designated Zf9 or CPBP (core promoter-binding protein), and KLF3 are Krüppel-like zinc finger containing transcription factors. KLF6 is rapidly induced during hepatic stellate cell activation and transactivates a reporter gene driven by the collagen I promoter, suggesting KLF6 plays a role in the response to tissue injury. KLF3 may play a role in hematopoiesis.

REFERENCES

- van Vliet, J., et al. 2000. Human Kruppel-like factor 8: a CACCC-box binding protein that associates with CtBP and represses transcription. *Nucleic Acids Res.* 28: 1955-1962.
- Kaczynski, J., et al. 2003. Sp1- and Krüppel-like transcription factors. *Genome Biol.* 4: 206.
- Turner, J., et al. 2003. The LIM protein FHL-3 binds basic Krüppel-like factor/Krüppel-like factor 3 and its co-repressor C-terminal-binding protein 2. *J. Biol. Chem.* 278: 12786-12795.
- Yang, X.O., et al. 2003. Regulation of T cell receptor D β 1 promoter by KLF5 through reiterated GC-rich motifs. *Blood* 101: 4492-4499.
- Chiambaretta, F., et al. 2004. Cell and tissue specific expression of human Kruppel-like transcription factors in human ocular surface. *Mol. Vis.* 10: 901-909.
- Ghaleb, A.M., et al. 2005. Krüppel-like factors 4 and 5: the yin and yang regulators of cellular proliferation. *Cell Res.* 15: 92-96.

CHROMOSOMAL LOCATION

Genetic locus: KLF3 (human) mapping to 4p14; Klf3 (mouse) mapping to 5 C3.1.

SOURCE

KLF3 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KLF3 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-33338 X, 200 μ g/0.1 ml.

Blocking peptide available for competition studies, sc-33338 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

KLF3 (S-13) is recommended for detection of KLF3 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 KLF3 siRNA (h): sc-44963, KLF3 siRNA (m): sc-44964, KLF3 shRNA Plasmid (h): sc-44963-SH, KLF3 shRNA Plasmid (m): sc-44964-SH, KLF3 shRNA (h) Lentiviral Particles: sc-44963-V and KLF3 shRNA (m) Lentiviral Particles: sc-44964-V.

KLF3 (S-13) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

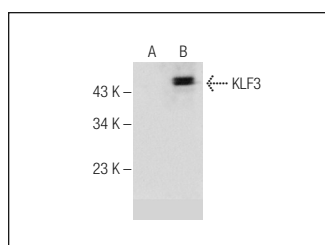
Molecular Weight of KLF3: 39 kDa.

Positive Controls: KLF3 (h): 293T Lysate: sc-370637 or Hep G2 cell lysate: sc-2227.

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.

DATA



KLF3 (S-13): sc-33338. Western blot analysis of KLF3 expression in non-transfected: sc-117752 (A) and human KLF3 transfected: sc-370637 (B) 293T whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

MONOS
Satisfaction
Guaranteed

Try **KLF3 (B-12): sc-514500** or **KLF3 (H-8): sc-393041**, our highly recommended monoclonal alternatives to KLF3 (S-13).