

## KLF3 (N-20): sc-33337

### 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

1. van Vliet, J., et al. 2000. Human Krüppel-like factor 8: a CACCC-box binding protein that associates with CtBP and represses transcription. *Nucleic Acids Res.* 28: 1955-1962.
2. Kaczynski, J., et al. 2003. Sp1- and Krüppel-like transcription factors. *Genome Biol.* 4: 206.
3. 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.
4. Yang, X.O., et al. 2003. Regulation of T cell receptor D  $\beta$  1 promoter by KLF5 through reiterated GC-rich motifs. *Blood* 101: 4492-4499.
5. Chiambaretta, F., et al. 2004. Cell and tissue specific expression of human Krüppel-like transcription factors in human ocular surface. *Mol. Vis.* 10: 901-909.

### CHROMOSOMAL LOCATION

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

### SOURCE

KLF3 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of KLF3 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-33337 X, 200  $\mu$ g/0.1 ml.

Blocking peptide available for competition studies, sc-33337 P, (100  $\mu$ 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.

### RESEARCH USE

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

### APPLICATIONS

KLF3 (N-20) 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), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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).

KLF3 (N-20) is also recommended for detection of KLF3 in additional species, including equine, canine, bovine and porcine.

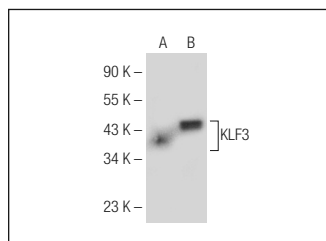
Suitable for use as control antibody for KLF3 siRNA (h): sc-44963, KLF3 siRNA (m): sc-44964, KLF3 shRNA Plasmid (h): sc-44963-SH, KLF3 shRNA Plasmid (m): sc-44964-SH, KLF3 shRNA (h) Lentiviral Particles: sc-44963-V and KLF3 shRNA (m) Lentiviral Particles: sc-44964-V.

KLF3 (N-20) 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.

### DATA



KLF3 (N-20): sc-33337. Western blot analysis of KLF3 expression in non-transfected: sc-117752 (**A**) and human KLF3 transfected: sc-370637 (**B**) 293T whole cell lysates.

### SELECT PRODUCT CITATIONS

1. Madonna, S., et al. 2010. The IFN- $\gamma$ -dependent suppressor of cytokine signaling 1 promoter activity is positively regulated by IFN regulatory factor-1 and Sp1 but repressed by growth factor independence-1 $\beta$  and Krüppel-like factor-4, and it is dysregulated in psoriatic keratinocytes. *J. Immunol.* 185: 2467-2481.

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Try **KLF3 (B-12): sc-514500** or **KLF3 (H-8): sc-393041**, our highly recommended monoclonal alternatives to KLF3 (N-20).