# KLF3 (KLF3B10F1): sc-81306



The Power to Question

## **BACKGROUND**

Kruppel-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 co-regulators with which they interact. KLF6, also designated Zf9 or CPBP (core promoter-binding protein), and KLF3 are Kruppel-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 Kruppel-like transcription factors. Genome Biol. 4: 206.
- Turner, J., et al. 2003. The LIM protein FHL-3 binds basic Kruppel-like factor/Kruppel-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.
- 6. Ghaleb, A.M., et al. 2005. Kruppel-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.

## **SOURCE**

KLF3 (KLF3B10F1) is a mouse monoclonal antibody raised against a recombinant protein corresponding to the C-terminal region of KLF3 of human origin.

#### **PRODUCT**

Each vial contains 100  $\mu g$   $lgG_1$  in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

# **STORAGE**

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

## **PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

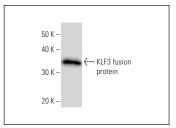
#### **APPLICATIONS**

KLF3 (KLF3B10F1) is recommended for detection of KLF3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)].

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

Molecular Weight of KLF3: 39 kDa.

### **DATA**



KLF3 (KLF3B10F1): sc-81306. Western Blot analysis of

## **RESEARCH USE**

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com