

KLF6 (P-19): sc-20884

BACKGROUND

The Kruppel-type zinc finger transcription factors comprise a conserved family of DNA binding proteins that are important in developmental regulation. The Kruppel zinc finger transcription factor was initially identified in *Drosophila* as a segmentation gene. Kruppel-like factors that have been characterized in mammals include EKLF, LKLF and GKLF. KLF6, also designated Zf9 or CPBP (for core promoter-binding protein), is a Kruppel-like zinc finger containing transcription factor. KLF6 is rapidly induced during hepatic stellate cell activation, and it has been shown to transactivate a reporter gene driven by the collagen I promoter, suggesting a role in the response to tissue injury. KLF6 has also been shown to bind to a TATA box-less promoter corresponding to a pregnancy-specific glycoprotein gene.

REFERENCES

- Schuh, R., et al. 1986. A conserved family of nuclear proteins containing structural elements of the finger protein encoded by Kruppel, a *Drosophila* segmentation gene. *Cell* 47: 1025-1032.
- Ruppert, J.M., et al. 1986. The GLI-Kruppel family of human genes. *Mol. Cell Biol.* 8: 1025-1032.
- Ollo, R. et al. 1987. *Drosophila* Kruppel gene product produced in a baculovirus expression system is a nuclear phosphoprotein that binds to DNA. *Proc. Natl. Acad. Sci. USA* 84: 5700-5704.
- Anderson, K.P., et al. 1995. Isolation of a gene encoding a functional zinc finger protein homologous to erythroid Kruppel-like factor: identification of a new multigene family. *Mol. Cell Biol.* 15: 5957-5965.
- Bieker, J.J. 1996. Isolation, genomic structure, and expression of human erythroid Kruppel-like factor (EKLF). *DNA Cell. Biol.* 15: 347-352.
- Shields, J.M., et al. 1996. Identification and characterization of a gene encoding a gut-enriched Kruppel-like factor expressed during growth arrest. *J. Biol. Chem.* 271: 20009-200017.
- Koritschoner, N.P., et al. 1997. A novel human zinc finger protein that interacts with the core promoter element of a TATA box-less gene. *J. Biol. Chem.* 272: 9573-9580.
- Ratziu, V., et al. 1998. Zf9, a Kruppel-like transcription factor up-regulated *in vivo* during early hepatic fibrosis. *Proc. Natl. Acad. Sci. USA* 95: 9500-9505.

SOURCE

KLF6 (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of KLF6 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-20884 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-20884 X, 200 µg/0.1 ml.

APPLICATIONS

KLF6 (P-19) is recommended for detection of KLF6 of human and, to a lesser extent, mouse and rat 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).

KLF6 (P-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

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.

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.


 MONOS
Satisfaction
Guaranteed

Try **KLF6 (E-10): sc-365633** or **KLF6 (2F5): sc-134374**, our highly recommended monoclonal alternatives to KLF6 (P-19). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **KLF6 (E-10): sc-365633**.