

# KLF6 (m): 293T Lysate: sc-121225

## BACKGROUND

The Krüppel-type zinc finger transcription factors comprise a conserved family of DNA binding proteins that are important in developmental regulation. The Krüppel zinc finger transcription factor was initially identified in *Drosophila* as a segmentation gene. Krüppel-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 Krüppel-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

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- Ollo, R. et al. 1987. *Drosophila* Krüppel gene product produced in a baculovirus expression system is a nuclear phosphoprotein that binds to DNA. *Proc. Natl. Acad. Sci. USA* 84: 5700-5704.
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- 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.
- Ratzliff, V., et al. 1998. Zf9, a Krüppel-like transcription factor up-regulated *in vivo* during early hepatic fibrosis. *Proc. Natl. Acad. Sci. USA* 95: 9500-9505.
- Sirach, E. et al. 2007. KLF6 transcription factor protects hepatocellular carcinoma-derived cells from apoptosis. *Cell Death Differ.* 14: 1202-1210.

## CHROMOSOMAL LOCATION

Genetic locus: *Klf6* (mouse) mapping to 13 A1.

## PRODUCT

KLF6 (m): 293T Lysate represents a lysate of mouse KLF6 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## APPLICATIONS

KLF6 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive KLF6 antibodies. Recommended use: 10-20 µl per lane.

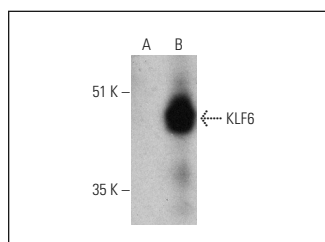
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

KLF6 (E-10) HRP: sc-365633 HRP is recommended as a positive control antibody for Western Blot analysis of enhanced mouse KLF6 expression in KLF6 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

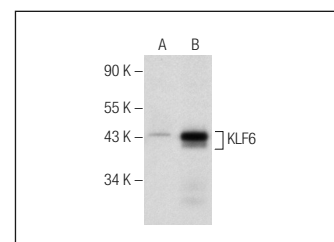
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:  
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



KLF6 (E-10) HRP: sc-365633 HRP. Direct western blot analysis of KLF6 expression in non-transfected: sc-117752 (A) and mouse KRTAP13 transfected: sc-121255 (B) 293T whole cell lysates.



KLF6 (E-10): sc-365633. Western blot analysis of KLF6 expression in non-transfected: sc-117752 (A) and mouse KLF6 transfected: sc-121225 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.