

KLF15 (A-12): sc-393627

BACKGROUND

KLF15, KLF6 and KLF3 are Krüppel-like zinc finger-containing transcription factors. KLF15, a kidney-enriched Krüppel-like factor, is a transcriptional activator that binds the CLCNKA promoter. KLF6 (also designated Zf9 or CPBP, for core promoter-binding protein) is rapidly induced during hepatic stellate cell activation and transactivates a reporter gene driven by the Collagen I promoter, suggesting that KLF6 plays a role in the response to tissue injury. KLF3 may play a role in hematopoiesis. KLF15, which is a nuclear protein, is expressed primarily in liver, heart, skeletal muscle and kidney tissues but is not detected in lymphoid tissues or bone marrow. It is an important regulator of Glut4 in both adipose and muscle tissues.

REFERENCES

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- Otteson, D.C., Liu, Y., Lai, H., Wang, C., Gray, S., Jain, M.K. and Zack, D.J. 2004. Krüppel-like factor 15, a zinc-finger transcriptional regulator, represses the rhodopsin and interphotoreceptor retinoid-binding protein promoters. *Invest. Ophthalmol. Vis. Sci.* 45: 2522-2530.
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CHROMOSOMAL LOCATION

Genetic locus: KLF15 (human) mapping to 3q21.3.

SOURCE

KLF15 (A-12) is a mouse monoclonal antibody raised against amino acids 214-300 mapping within an internal region of KLF15 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

KLF15 (A-12) is recommended for detection of KLF15 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for KLF15 siRNA (h): sc-45567, KLF15 shRNA Plasmid (h): sc-45567-SH and KLF15 shRNA (h) Lentiviral Particles: sc-45567-V.

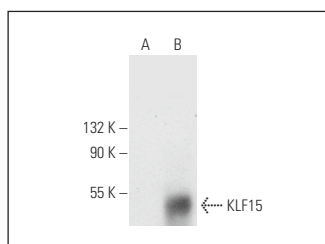
Molecular Weight of KLF15: 44 kDa.

Positive Controls: KLF15 (h): 293T Lysate: sc-115194.

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



KLF15 (A-12): sc-393627. Western blot analysis of KLF15 expression in non-transfected: sc-117752 (A) and human KLF15 transfected: sc-115194 (B) 293T whole cell lysates.

SELECT PRODUCT CITATIONS

- Melnik, S., Hofmann, N., Gabler, J., Hecht, N. and Richter, W. 2021. MiR-181a targets RSP02 and regulates bone morphogenetic protein—WNT signaling crosstalk during chondrogenic differentiation of mesenchymal stromal cells. *Front. Cell Dev. Biol.* 9: 747057.

RESEARCH USE

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

PROTOCOLS

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