

KLF15 (N-16): sc-34827

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.

CHROMOSOMAL LOCATION

Genetic locus: KLF15 (human) mapping to 3q21.3; Klf15 (mouse) mapping to 6 D1.

SOURCE

KLF15 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of KLF15 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-34827 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-34827 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

KLF15 (N-16) is recommended for detection of KLF15 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

KLF15 (N-16) is also recommended for detection of KLF15 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for KLF15 siRNA (h): sc-45567, KLF15 siRNA (m): sc-45568, KLF15 shRNA Plasmid (h): sc-45567-SH, KLF15 shRNA Plasmid (m): sc-45568-SH, KLF15 shRNA (h) Lentiviral Particles: sc-45567-V and KLF15 shRNA (m) Lentiviral Particles: sc-45568-V.

KLF15 (N-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of KLF15: 44 kDa.

Positive Controls: KLF15 (h): 293T Lysate: sc-115194 or KNRK nuclear extract: sc-2141.

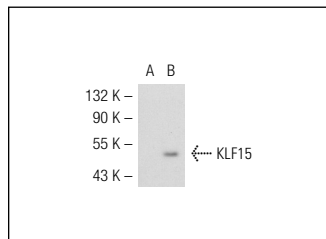
RESEARCH USE

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

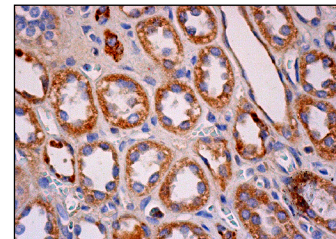
STORAGE

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

DATA



KLF15 (N-16): sc-34827. Western blot analysis of KLF15 expression in non-transfected: sc-117752 (A) and human KLF15 transfected: sc-115194 (B) 293T whole cell lysates.



KLF15 (N-16): sc-34827. Immunoperoxidase staining of formalin fixed, paraffin-embedded human kidney tissue showing cytoplasmic staining of cells in tubules.

SELECT PRODUCT CITATIONS

- Yoshikawa, N., et al. 2009. Ligand-based gene expression profiling reveals novel roles of glucocorticoid receptor in cardiac metabolism. *Am. J. Physiol. Endocrinol. Metab.* 296: E1363-E1373.
- Horie, T., et al. 2009. MicroRNA-133 regulates the expression of GLUT4 by targeting KLF15 and is involved in metabolic control in cardiac myocytes. *Biochem. Biophys. Res. Commun.* 389: 315-320.
- Cheng, M., et al. 2012. Molecular characterization and transcriptional analysis of fad24 in pigs. *Gene* 503: 208-214.

PROTOCOLS

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

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Try **KLF15 (A-5): sc-271675** or **KLF15 (A-12): sc-393627**, our highly recommended monoclonal alternatives to KLF15 (N-16).