

EKLF (H-210): sc-14034

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. EKLF is expressed principally in erythroid tissues, and LKLF expression is limited to the lung. GKLF is found predominantly in gut and has been shown to be expressed during growth arrest.

REFERENCES

- Schuh, R., et al. 1986. A conserved family of nuclear proteins containing structural elements of the finger protein encoded by Krüppel, a *Drosophila* segmentation gene. *Cell* 47: 1025-1032.
- 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.
- Chavrier, P., et al. 1988. Characterization of a mouse multigene family that encodes zinc finger structures. *Mol. Cell. Biol.* 8: 1319-1326.
- Ruppert, J.M., et al. 1988. The GLI-Krüppel family of human genes. *Mol. Cell. Biol.* 8: 3104-3113.
- Bray, P., et al. 1991. Characterization and mapping of human genes encoding zinc finger proteins. *Proc. Natl. Acad. Sci. USA* 88: 9563-9567.
- Anderson, K.P., et al. 1995. Isolation of a gene encoding a functional zinc finger protein homologous to erythroid Krüppel-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 Krüppel-like factor (EKLF). *DNA Cell Biol.* 15: 347-352.

CHROMOSOMAL LOCATION

Genetic locus: KLF1 (human) mapping to 19p13.2; Klf1 (mouse) mapping to 8 C3.

SOURCE

EKLF (H-210) is a rabbit polyclonal antibody raised against amino acids 31-153 mapping near the N-terminus of EKLF 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-14034 X, 200 µg/0.1 ml.

STORAGE

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

PROTOCOLS

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

APPLICATIONS

EKLF (H-210) is recommended for detection of EKLF of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for EKLF siRNA (h): sc-37831, EKLF siRNA (m): sc-37832, EKLF shRNA Plasmid (h): sc-37831-SH, EKLF shRNA Plasmid (m): sc-37832-SH, EKLF shRNA (h) Lentiviral Particles: sc-37831-V and EKLF shRNA (m) Lentiviral Particles: sc-37832-V.

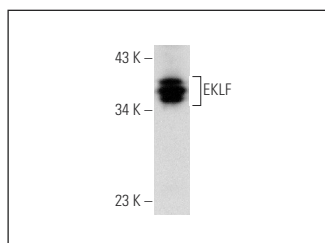
EKLF (H-210) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of EKLF: 33 kDa.

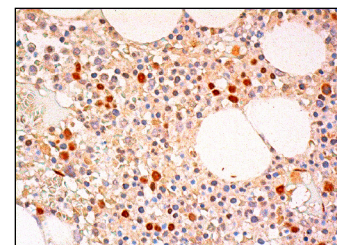
Molecular Weight (observed) of EKLF: 38 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203.

DATA



EKLF (H-210): sc-14034. Western blot analysis of EKLF expression in LADMAC nuclear extract.



EKLF (H-210): sc-14034. Immunoperoxidase staining of formalin fixed, paraffin-embedded human bone marrow tissue showing nuclear staining in a subset of hematopoietic cells.

SELECT PRODUCT CITATIONS

- Southwood, C.M., et al. 2012. Tissue-restricted transcription from a conserved intragenic CpG island in the Klf1 gene in mice. *Biol. Reprod.* 87: 108.

RESEARCH USE

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

MONOS
Satisfaction
Guaranteed

Try **GKLF/EKLF/LKLF (F-8): sc-166238**, our highly recommended monoclonal alternative to EKLF (H-210). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **GKLF/EKLF/LKLF (F-8): sc-166238**.