

# EKLF (F-20): sc-27194

## 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.
- 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.

## CHROMOSOMAL LOCATION

Genetic locus: *Klf1* (mouse) mapping to 8 C3.

## SOURCE

EKLF (F-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of EKLF of mouse 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-27194 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

EKLF (F-20) is recommended for detection of EKLF of mouse and, to a lesser extent, 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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

Molecular Weight (predicted) of EKLF: 33 kDa.

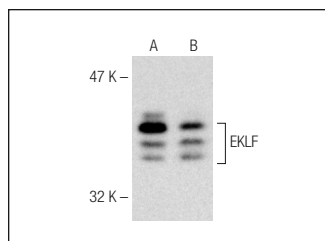
Molecular Weight (observed) of EKLF: 38 kDa.

Positive Controls: mouse spleen extract: sc-2391, NIH/3T3 nuclear extract: sc-2138 or MM-142 nuclear extract: sc-2139.

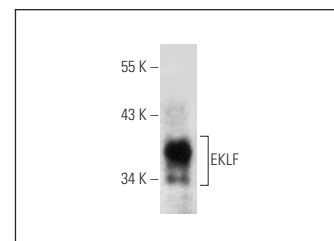
## RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



EKLF (F-20): sc-27194. Western blot analysis of EKLF expression in NIH/3T3 (A) and MM-142 (B) nuclear extracts.



EKLF (F-20): sc-27194. Western blot analysis of EKLF expression in mouse spleen tissue extract.

## SELECT PRODUCT CITATIONS

- Bouilloux, F., et al. 2008. EKLF restricts megakaryocytic differentiation at the benefit of erythrocytic differentiation. *Blood* 112: 576-584.
- 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.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.


 MONOS  
Satisfation  
Guaranteed

Try **GKLF/EKLF/LKLF (F-8): sc-166238**, our highly recommended monoclonal alternative to EKLF (F-20). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **GKLF/EKLF/LKLF (F-8): sc-166238**.