



EKLF/CKLF/UKLF Polyclonal Antibody

Catalog No	BYab-01688
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IF;ELISA
Gene Name	KLF1/KLF5/KLF7
Protein Name	Krueppel-like factor 1/Krueppel-like factor 5/Krueppel-like factor 7
Immunogen	The antiserum was produced against synthesized peptide derived from human KLF. AA range:291-340
Specificity	EKLF/CKLF/UKLF Polyclonal Antibody detects endogenous levels of EKLF/CKLF/UKLF protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	KLF1; EKLF; Krueppel-like factor 1; Erythroid krueppel-like transcription factor; EKLF; KLF5; BTEB2; CKLF; IKLF; Krueppel-like factor 5; Basic transcription element-binding protein 2; BTE-binding protein 2; Colon krueppel-like factor; GC-bo
Observed Band	38kD(EKLF) 20kD(CKLF/UKLF)
Cell Pathway	Nucleus . Colocalizes with SUMO1 in nuclear speckles. .
Tissue Specificity	Expression restricted to adult bone marrow and fetal liver. Not expressed in myeloid nor lymphoid cell lines.
Function	function:Transcription regulator of erythrocyte development. Binds to the CACCC box in the beta-globin gene promoter and activates transcription. When sumoylation, acts as a Probably serves as a general switch factor for erythroid development. When sumoylated, acts as a transcriptional repressor, by promoting interaction with CDH2/Mi2beta and also represses megakaryocytic differentiation.,PTM:Acetylated; can be acetylated on both Lys-274 and Lys-288. Acetylation on Lys-274 (by CBP) appears to be the major site affecting EKLF

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transactivation activity.,PTM:Phosphorylated primarily on serine residues in the transactivation domain. Phosphorylation on Thr-23 is critical for the transactivation activity.,PTM:Sumoylated; sumoylation, promoted by PIAS1, leads to repression of megakaryocyte differentiation. Also promotes the interaction with the CDH4 subunit of the NuRD repression complex.,simila

Background

This gene encodes a hematopoietic-specific transcription factor that induces high-level expression of adult beta-globin and other erythroid genes. The zinc-finger protein binds to the DNA sequence CCACACCCT found in the beta hemoglobin promoter. Heterozygous loss-of-function mutations in this gene result in the dominant In(Lu) blood phenotype. [provided by RefSeq, Oct 2009],

matters needing attention

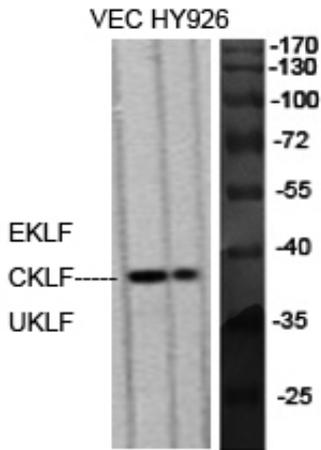
Avoid repeated freezing and thawing!

Usage suggestions

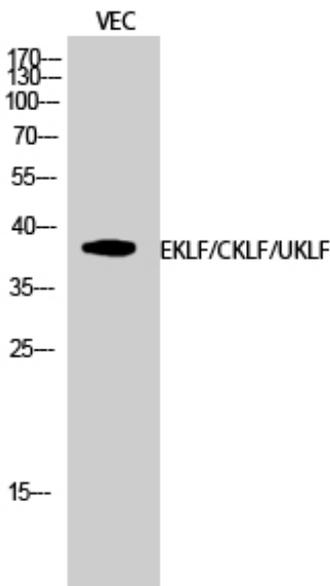
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



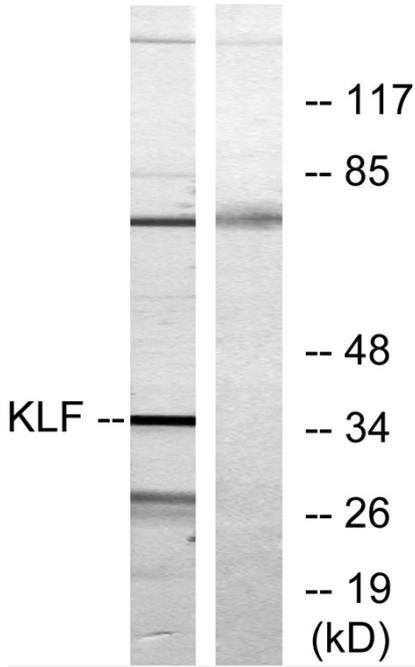
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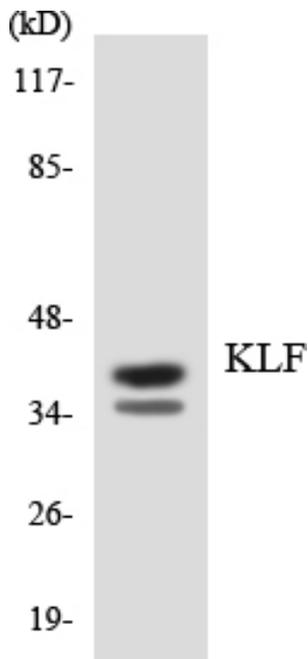
Western Blot analysis of various cells using EKLf/CKLf/UKLf Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western Blot analysis of VEC cells using EKLf/CKLf/UKLf Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Western blot analysis of lysates from Jurkat cells, treated with serum 20% 15', using KLF Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from K562 cells using KLF antibody.