

产品名称: EKLF/CKLF/UKLF Rabbit Polyclonal Antibody  
产品货号: APRab10397



## 产品概述 (Summary)

|                        |                                           |
|------------------------|-------------------------------------------|
| 产品名称 (Production Name) | EKLF/CKLF/UKLF Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                |
| 宿主 (Host)              | Rabbit                                    |
| 应用 (Application)       | WB, ICC/IF, ELISA                         |
| 种属反应性 (Reactivity)     | Human, Mouse, Rat                         |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | KLF1/KLF5/KLF7<br>KLF1; EKLF; Krueppel-like factor 1; Erythroid krueppel-like transcription factor;                                                            |
| 别名 (Alternative Names) | 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 |
| 基因 ID (Gene ID)        | 10661/688/8609                                                                                                                                                 |
| 蛋白 ID (SwissProt ID)   | Q13351/Q13887/O75840. The antiserum was produced against synthesized peptide derived from human KLF. AA range: 291-340                                         |

## 产品应用 (Application)

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| 稀释比 (Dilution Ratio) | WB 1:500-1:2000, ICC/IF 1:200-1:1000, ELISA 1:10000-1:20000 |
|----------------------|-------------------------------------------------------------|

产品名称: EKLF/CKLF/UKLF Rabbit Polyclonal Antibody  
产品货号: AP Rab10397



蛋白分子量 (Molecular Weight) 38kDa(EKLF) 20kDa(CKLF/UKLF)

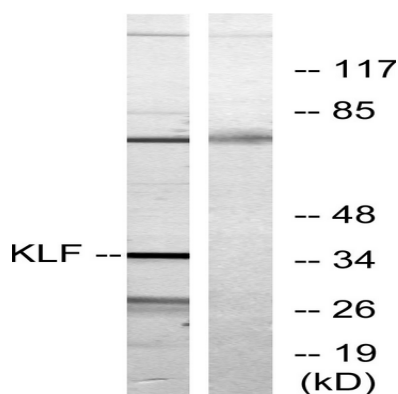
## 研究背景 (Background)

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],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 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.,similarity:Belongs to the krueppel C2H2-type zinc-finger protein family.,similarity:Contains 3 C2H2-type zinc fingers.,subcellular location:Colocalizes with SUMO1 in nuclear speckles.,subunit:Interacts with CBP and EP300; the interactions enhance the transactivation activity. Interacts with PCAF; the interaction does not acetylate EKLF and inhibits its transactivation activity.,tissue specificity:Expression restricted to adult bone marrow and fetal liver. Not expressed in myeloid nor lymphoid cell lines.,

## 研究领域 (Research Area)

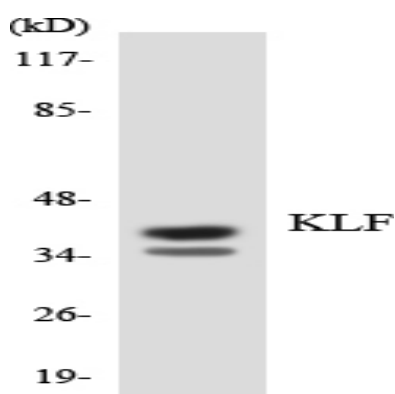
Protein\_Acetylation

## 图片 (Image Data)

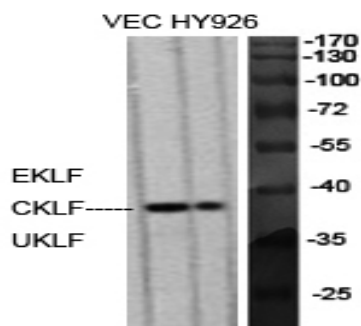


Western blot analysis of lysates from Jurkat cells, treated with serum 20% 15', using KLF Antibody. The lane on the right is blocked with the synthesized peptide.

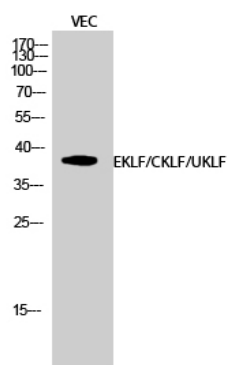
产品名称: EKLF/CKLF/UKLF Rabbit Polyclonal Antibody  
产品货号: APRab10397



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



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) .

## 注意事项 (Note)

For research use only .