



# EKLF/CKLF/UKLF Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-01688                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>                | WB;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Name</b>                   | KLF1/KLF5/KLF7                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human KLF. AA range:291-340                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Specificity</b>                 | EKLF/CKLF/UKLF Polyclonal Antibody detects endogenous levels of EKLF/CKLF/UKLF protein.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dilution</b>                    | Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                                                                |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>                    | EKLF/CKLF/UKLF;KLF1/KLF5/KLF7;Krueppel-like factor 1/Krueppel-like factor 5/Krueppel-like factor 7;KLF1;EKLF;Krueppel-like factor 1;Erythroid krueppel-like transcription factor;KLF5;BTEB2;CKLF;IKLF;Krueppel-like factor 5;Basic transcription element-binding protein 2;BTE-binding protein 2;Colon krueppel-like factor;GC-bo                                                                                                                                      |
| <b>Observed Band</b>               | 38kD(EKLF) 20kD(CKLF/UKLF)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Calculated Molecular Weight</b> | 38kD(EKLF) 20kD(CKLF/UKLF)                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cell Pathway</b>                | Nucleus . Colocalizes with SUMO1 in nuclear speckles. .                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Tissue Specificity</b>          | Expression restricted to adult bone marrow and fetal liver. Not expressed in myeloid nor lymphoid cell lines.                                                                                                                                                                                                                                                                                                                                                          |
| <b>Function</b>                    | 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.,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**

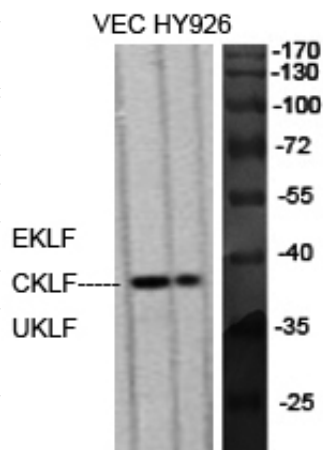
Avoid repeated freezing and thawing!

**Usage suggestions**

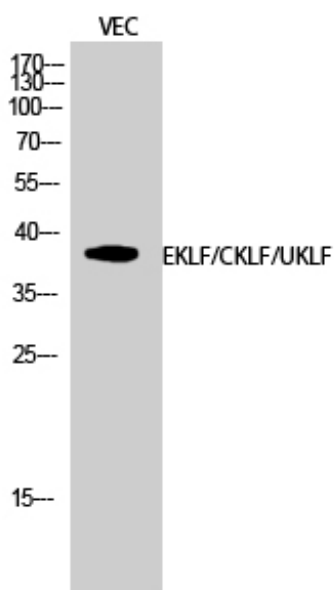
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



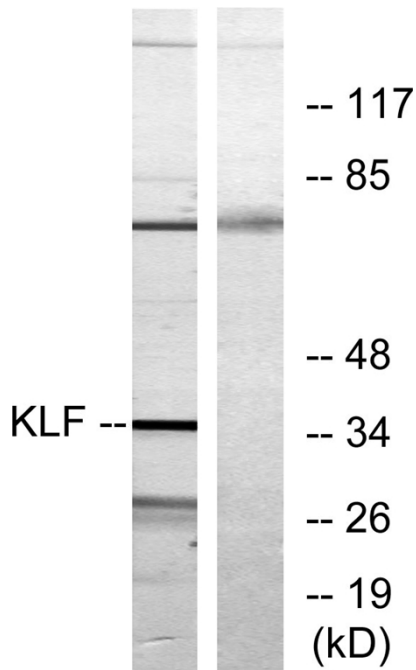
## Products Images



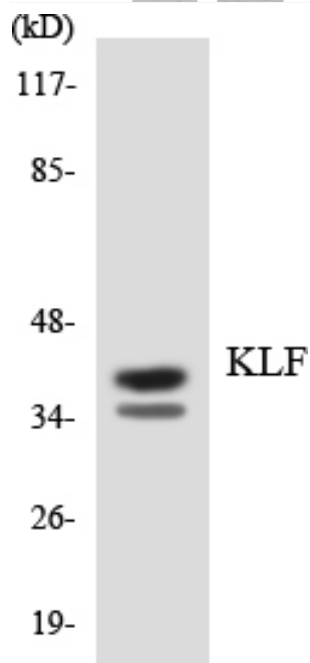
Western Blot analysis of various cells using EKLf/CKLf/UKLf Polyclonal Antibody diluted at 1:500 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



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.