

## Total EKLF/CKLF/UKLF Cell-Based Colorimetric ELISA Kit

<b>Catalog No :</b>	KA3710C
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	ELISA
<b>Gene Name :</b>	KLF1/KLF5/KLF7
<b>Human Swiss Prot No :</b>	Q13351/Q13887/O75840
<b>Storage Stability :</b>	2-8 °C/6 months
<b>Detection Method :</b>	Colorimetric

**Background :** 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.,

**Function :** in utero embryonic development, liver development, immune system development, chromatin organization, chromatin remodeling, transcription, embryonic development ending in birth or egg hatching, chromatin modification,developmental maturation, hemopoiesis, myeloid cell differentiation, erythrocyte differentiation, erythrocyte homeostasis, embryonic hemopoiesis, homeostatic process, chordate embryonic development, erythrocyte maturation,regulation of

transcription, cell maturation, hemopoietic or lymphoid organ development, embryonic organ development, erythrocyte development, homeostasis of number of cells, chromosome organization,

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**Subcellular  
Location :**

Nucleus . Colocalizes with SUMO1 in nuclear speckles. .

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**Expression :**

Expression restricted to adult bone marrow and fetal liver. Not expressed in myeloid nor lymphoid cell lines.

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## Products Images