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[Primary Antibody]

Rabbit Anti-FKLF antibody

Catalog Number: SL16096R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FKLF
Immunogen:	KLH conjugated synthetic peptide derived from human FKLF: 21-120/512
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat, (predicted: Human, Mouse, Dog, Cow, Horse, Sheep)
Predicted MW.:	55kDa
Subcellular Location:	The nucleus
Background:	The protein encoded by this gene is a zinc finger transcription factor that binds to SP1-like sequences in epsilon- and gamma-globin gene promoters. This binding inhibits cell growth and causes apoptosis. Defects in this gene are a cause of maturity-onset diabetes of the young type 7 (MODY7). Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Apr 2010] **Function:** Transcription factor. Activates the epsilon- and gamma-globin gene promoters and, to a much lower degree, the beta-globin gene and represses promoters containing SP1-like binding inhibiting cell growth. Represses transcription of SMAD7 which enhances TGF-beta signaling. Induces apoptosis. **Subcellular Location:** Nucleus. **Tissue Specificity:** Ubiquitous. Higher expression in erythroid cells. DISEASE: Defects in KLF11 are the cause of maturity-onset diabetes of the young type 7 (MODY7) [MIM:610508]. MODY is a form of diabetes that is

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	characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease. **Similarity:** Belongs to the Sp1 C2H2-type zinc-finger protein family. Contains 3 C2H2-type zinc fingers. **Database links:** **Entrez Gene:** 8462 Human **Entrez Gene:** 194655 Mouse **Entrez Gene:** 313994 Rat Omim: 603301 Human **SwissProt:** O14901 Human **SwissProt:** Q8K1S5 Mouse **Unigene:** 12229 Human **Unigene:** 694968 Human **Unigene:** 9616 Mouse

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