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Rabbit Anti-FKLF/AP Conjugated antibody

SL16096R-AP

Product Name	Anti-FKLF/AP
Chinese Name	碱性磷酸酶（AP）标记的 FKLF 蛋白抗体
Alias	9830142A17; D12Ertd427e; FKLF; FKLF1; KLF11; KLF11_HUMAN; Krueppel like factor 11; Krueppel-like factor 11; MODY7; Tcfcp2l2; TGFB Early Growth Response 2; TGFB-inducible early growth response protein 2; TGFB-inducible early growth response protein 2b; TGFB-inducible early growth response protein 3; TIEG 2; TIEG-2; TIEG-3; Tieg2b; Transforming Growth Factor Beta Inducible Early Growth Response 2; Transforming growth factor-beta-inducible early growth response protein 2; Transforming growth factor-beta-inducible early growth response protein 3.
Research Area	Cell biology Signal transduction Apoptosis transcriptional regulatory factor Diabetes Zinc finger protein Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Dog,Cow,Horse,Sheep)
Applications	ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	55kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human FKLF
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**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 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

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.