SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-IGLK antibody

Catalog Number: SL15576R

FOR RESEARCH USE ONLY

[DATASHEET]

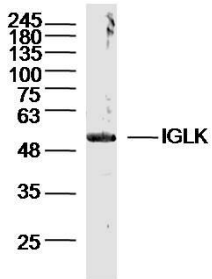
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	IGLK
Immunogen:	KLH conjugated synthetic peptide derived from human IGLK: 101-200/465
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Predicted MW.:	52kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. Alternative splicing of this gene results in three tissue-specific forms of glucokinase, one found in pancreatic islet beta cells and two found in liver. The protein localizes to the outer membrane of mitochondria. In contrast to other forms of hexokinase, this enzyme is not inhibited by its product glucose-6-phosphate but remains active while glucose is abundant. Mutations in this gene have been associated with non-insulin dependent diabetes mellitus (NIDDM), maturity onset diabetes of the young, type 2 (MODY2) and persistent hyperinsulinemic hypoglycemia of infancy (PHHI). [provided by RefSeq, Apr 2009]. **Function:** Catalyzes the initial step in utilization of glucose by the beta-cell and liver at physiological glucose concentration. Glucokinase has a high Km for glucose, and so it is effective only when glucose is abundant. The role of GCK is to provide G6P for the synthesis of glycogen. Pancreatic glucokinase plays an important role in modulating insulin secretion. Hepatic glucokinase

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	helps to facilitate the uptake and conversion of glucose by acting as an insulin-sensitive determinant of hepatic glucose usage. **Subunit:** Monomer. **Tissue Specificity:** Isoform 1 is expressed in pancreas. Isoform 2 and isoform 3 is expressed in liver. DISEASE: Maturity-onset diabetes of the young 2 (MODY2) [MIM:125851]: 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. Note=The disease is caused by mutations affecting the gene represented in this entry. Familial hyperinsulinemic hypoglycemia 3 (HHF3) [MIM:602485]: Most common cause of persistent hypoglycemia in infancy. Unless early and aggressive intervention is undertaken, brain damage from recurrent episodes of hypoglycemia may occur. Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Belongs to the hexokinase family. **Database links:** **Entrez Gene:** 2645 Human Omim: 138079 Human **SwissProt:** P35557 Human **Unigene:** 1270 Human

[VALIDATION IMAGES]



Sample:Heart (Mouse) Lysate at 40 ug
Primary: Anti-IGLK (SL15576R)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 52kD
Observed band size: 52kD

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