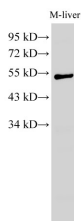


GCK Polyclonal Antibody

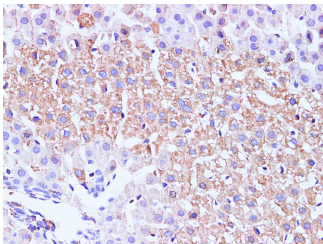
Catalog No.	E-AB-40270	Reactivity	H,M
Storage	Store at -20°C. Avoid freeze / thaw cycles.	Host	Rabbit
Applications	WB,IHC,IF	Isotype	IgG

Note: Centrifuge before opening to ensure complete recovery of vial contents.

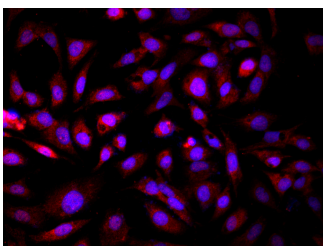
Images



Western Blot analysis of Mouse liver using GCK Polyclonal Antibody at dilution of 1:1000



Immunohistochemistry of paraffin-embedded Mouse liver using GCK Polyclonal Antibody at dilution of 1:100



Immunofluorescence analysis of HepG2 cells using GCK Polyclonal Antibody at dilution of 1:100

Immunogen Information

Immunogen	Recombinant Mouse Glucokinase protein
Swissprot	P52792
Synonyms	FGQTL3,GCK,GK,GLK,Glucokinase,Hexokinase-4, Hexokinase-D,HHF3,HK IV,HK4,HKIV,HXK4,HXKP,LGLK,MODY2

Product Information

Calculated MW	52 kDa
Observed MW	52kDa
Buffer	PBS with 0.05% Proclin300 and 50% glycerol, pH7.4.
Purify	Antigen Affinity Purification
Dilution	WB 1:1000-1:2000 IHC 1:100-1:200 IF 1:100-1:400

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).

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Applications:WB-Western Blot IHC-Immunohistochemistry IF-Immunofluorescence IP-Immunoprecipitation FC-Flow cytometry ChIP-Chromatin Immunoprecipitation Reactivity: H-Human R-Rat M-Mouse Mk-Monkey Dg-Dog Ch-Chicken Hm-Hamster Rb-Rabbit Sh-Sheep Pg-Pig Z-Zebrafish X-Xenopus C-Cow.