



## **GCK Polyclonal Antibody**

GCK. AA range:43-92  Specificity GCK Polyclonal Antibody detects endogenous levels of GCK protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azid.  Source Polyclonal, Rabbit,IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms GCK; Glucokinase; Hexokinase type IV; HK IV; Hexokinase-4; HK4; Hexokinase-D  Observed Band 55kD  Cell Pathway Cytoplasm . Nucleus . Mitochondrion . Under low glucose concentrations, associates with GCKR and the inactive complex is recruited to the hepatomucleus.  Tissue Specificity Lung,Pancreas,Placenta,  catalytic activity:ATP + D-glucose = ADP + D-glucose 6-phosphatedisease:Defects in GCK are the cause of familial hyperinsulin hypoglycemia type 3 (HHF3) [MIM:602485]. HHF is the most common cau persistent hypoglycemia in infancy. Unless early and aggressive interventiundertaken, brain damage from recurrent episodes of hypoglycemia may occurdisease:Defects in GCK are the cause of fippoglycemia may occur disease:Defects in GCK are the cause of fippoglycemia may occur disease:Defects in GCK are the cause of fippoglycemia may occur disease:Defects in GCK are the cause of maturity onset diabetes of maturity		
Reactivity Human;Mouse;Rat  Applications WB;ELISA  Gene Name GCK  Protein Name Glucokinase  Immunogen The antiserum was produced against synthesized peptide derived from hu GCK. AA range:43-92  Specificity GCK Polyclonal Antibody detects endogenous levels of GCK protein.  Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azid Source Polyclonal, Rabbit,IgG  Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.  Dilution Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.  Concentration 1 mg/ml  Purity ≥90%  Storage Stability -20°C/1 year  Synonyms GCK; Glucokinase; Hexokinase type IV; HK IV; Hexokinase-4; HK4; Hexokinase-D  Observed Band 55kD  Cell Pathway Cytoplasm . Nucleus . Mitochondrion . Under low glucose concentrations, associates with GCKR and the inactive complex is recruited to the hepator nucleus.  Tissue Specificity Lung,Pancreas,Placenta,  Catalytic activity:ATP + D-glucose = ADP + D-glucose 6-phosphate, disease:Defects in GCK are the cause of familial hyperinsulin hypoglycemia in infancy. Unless early and aggressive interventiun undertaken, brain damage from recurrent episodes of hypoglycemia may occur. diseases Defects in GCK are the cause of maturity one diabetes of the cause of maturity occurs diabetes of the cause of maturity occurs. disease: Defects in GCK are the cause of maturity occurs diabetes of the cause of maturity occurs diabetes	Catalog No	BYab-14754
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	hyperglycemia due to reduced pancreatic beta cell responsiveness to glucose, decreased net accumulation of hepatic glycogen and increased hepatic gluconeogenesis following meals.,enzyme regulation:The use of alternative promoters apparently enables
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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