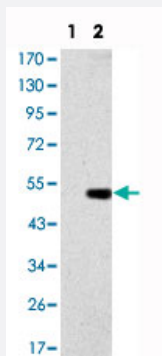


GCK monoclonal antibody, clone 4G6

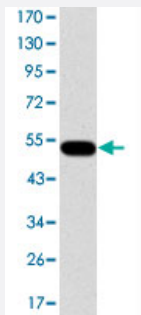
Catalog # MAB10666 Size 100 uL

Applications



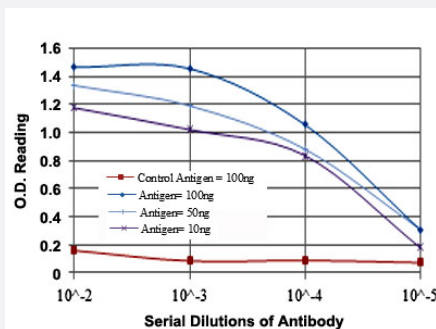
Western Blot (Transfected lysate)

Western blot analysis using GCK monoclonal antibody, clone 4G6 (Cat # MAB10666) against HEK293 (1) and GCK-hlgGfc transfected HEK293 (2) cell lysate.



Western Blot (Recombinant protein)

Western blot analysis using GCK monoclonal antibody, clone 4G6 (Cat # MAB10666) against recombinant protein.



Enzyme-linked Immunoabsorbent Assay

ELISA measurement of GCK monoclonal antibody, clone 4G6 (Cat # MAB10666) .

Specification

Product Description

Mouse monoclonal antibody raised against partial recombinant GCK.

Immunogen	Recombinant protein corresponding to human GCK.
Host	Mouse
Theoretical MW (kDa)	52
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western blot analysis using GCK monoclonal antibody, clone 4G6 (Cat # MAB10666) against HEK293 (1) and GCK-hlgGfc transfected HEK293 (2) cell lysate.

- Western Blot (Recombinant protein)

Western blot analysis using GCK monoclonal antibody, clone 4G6 (Cat # MAB10666) against recombinant protein.

- Enzyme-linked Immunoabsorbent Assay

ELISA measurement of GCK monoclonal antibody, clone 4G6 (Cat # MAB10666) .

Gene Info — GCK

Entrez GeneID	2645
Gene Name	GCK
Gene Alias	GK, GLK, HHF3, HK4, HKIV, HXKP, MODY2
Gene Description	glucokinase (hexokinase 4)

Omim ID [125851](#) [125853](#) [138079](#) [602485](#) [606176](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations ATP:D-hexose 6-phosphotransferase[OTTHUMP00000024521|OTTHUMP00000159308]glucokinase|hexokinase D, pancreatic isozyme

Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Galactose metabolism](#)
- [Glycolysis / Gluconeogenesis](#)
- [Insulin signaling pathway](#)
- [Maturity onset diabetes of the young](#)
- [Metabolic pathways](#)
- [Starch and sucrose metabolism](#)
- [Streptomycin biosynthesis](#)
- [Type II diabetes mellitus](#)

Disease

- [Alzheimer disease](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)

- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Diabetes](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Edema](#)
- [Fetal Growth Retardation](#)
- [Genetic Predisposition to Disease](#)
- [Glucose Intolerance](#)
- [HIV Infections](#)
- [Hyperglycemia](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Hypoglycemia](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Overweight](#)
- [Persistent Hyperinsulinemia Hypoglycemia of Infancy](#)
- [Postoperative Complications](#)

- [Pregnancy Complications](#)
- [Pregnancy in Diabetics](#)
- [Sudden Infant Death](#)