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Product datasheet for TA500459

Glucokinase (GCK) Mouse Monoclonal Antibody [Clone ID: OTI3E3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3E3
Applications:	IF, IHC, WB
Recommend Dilution:	WB 1:500, IHC 1:50, IF 1:50
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human GCK (NP_000153) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	52 kDa
Gene Name:	glucokinase
Database Link:	NP_000153 Entrez Gene 2645 Human
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]
Synonyms:	FGQTL3; GK; GLK; HHF3; HK4; HKIV; HXKP; LGLK; MODY2
Protein Families:	Druggable Genome

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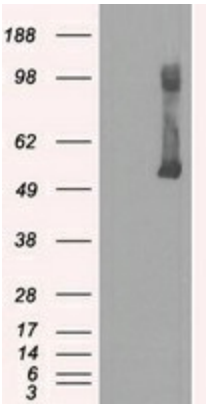
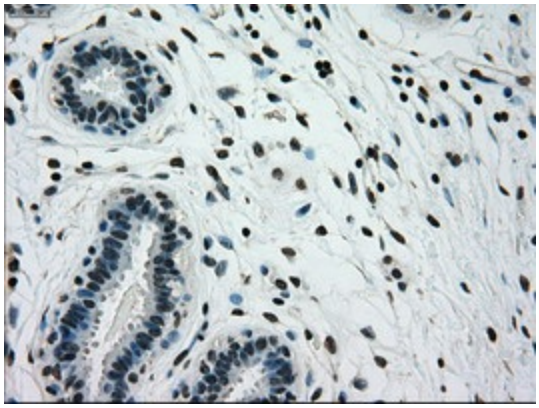
Protein Pathways: Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Insulin signaling pathway, Maturity onset diabetes of the young, Metabolic pathways, Starch and sucrose metabolism, Type II diabetes mellitus

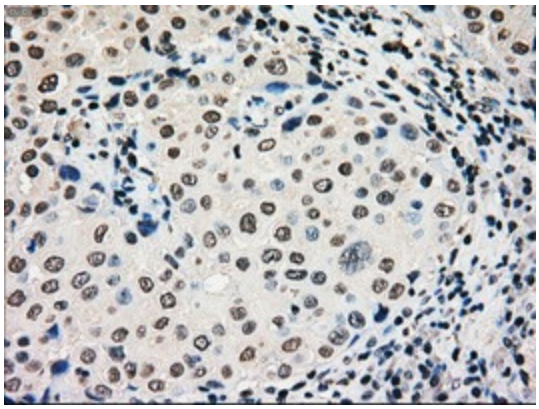
Product images:



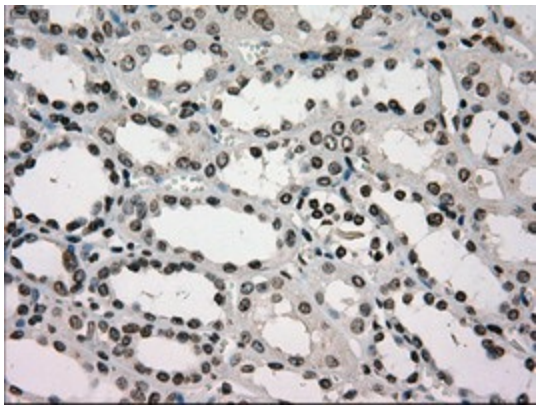
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GCK ([RC200472], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GCK. Positive lysates [LY400059] (100ug) and [LC400059] (20ug) can be purchased separately from OriGene.



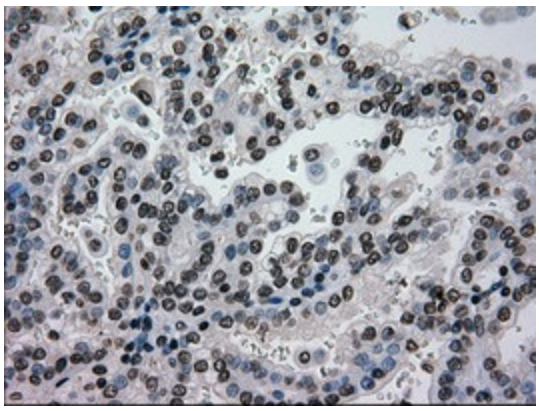
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



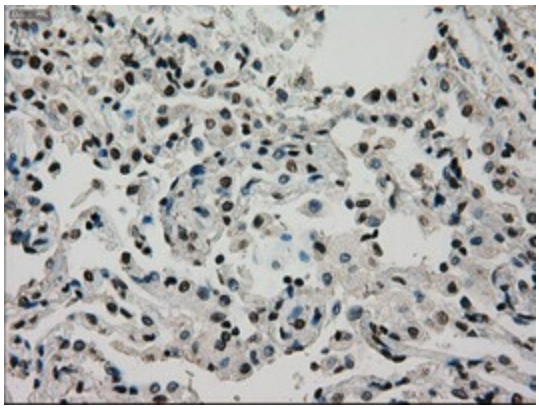
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



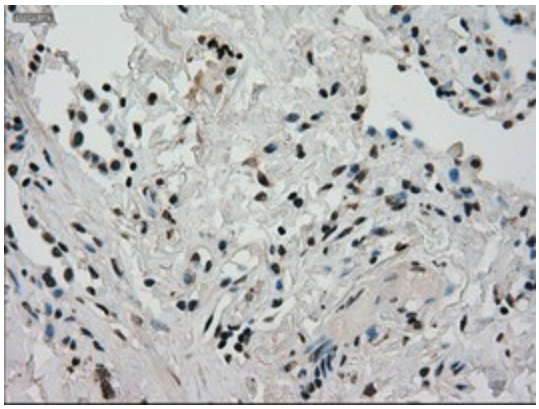
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



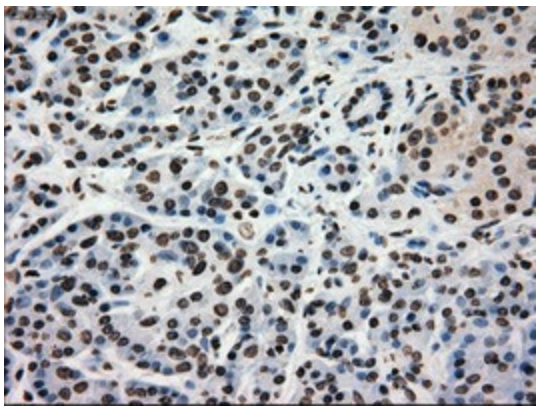
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



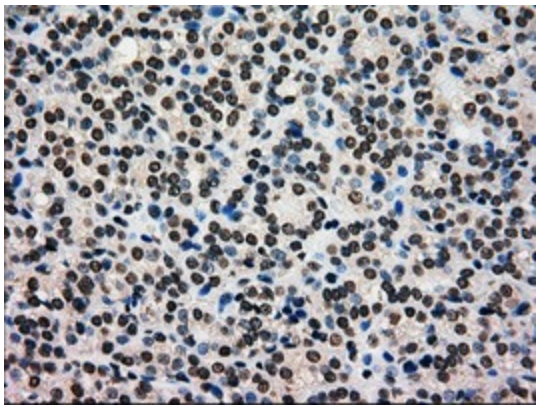
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



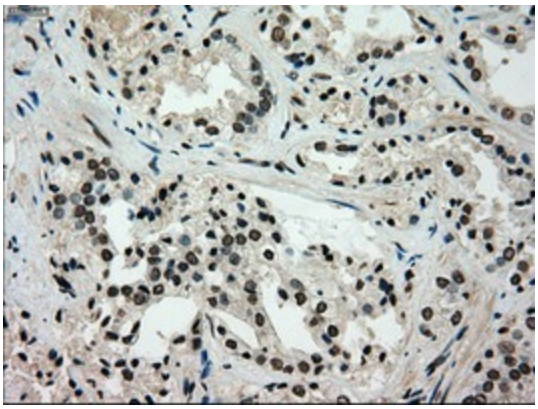
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



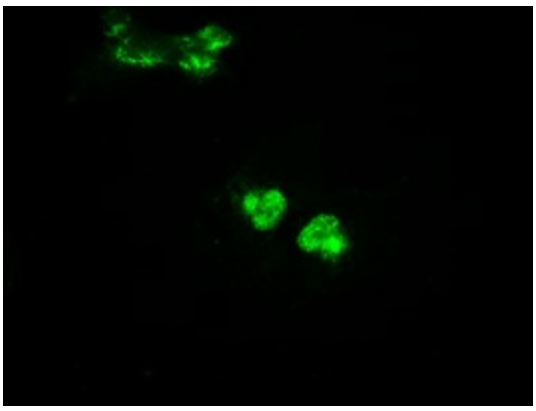
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-GCK mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, TA500459)



Anti-GCK mouse monoclonal antibody (TA500459) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY GCK ([RC200472]).