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Product datasheet for TA321074

Glucokinase (GCK) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 10-50 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 3-17 amino acids of Human glucokinase (hexokinase 4)
Formulation:	PBS pH7.3, 0.05% NaN3, 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glucokinase
Database Link:	NP_000153 Entrez Gene 24385 RatEntrez Gene 103988 MouseEntrez Gene 2645 Human P35557

View online »

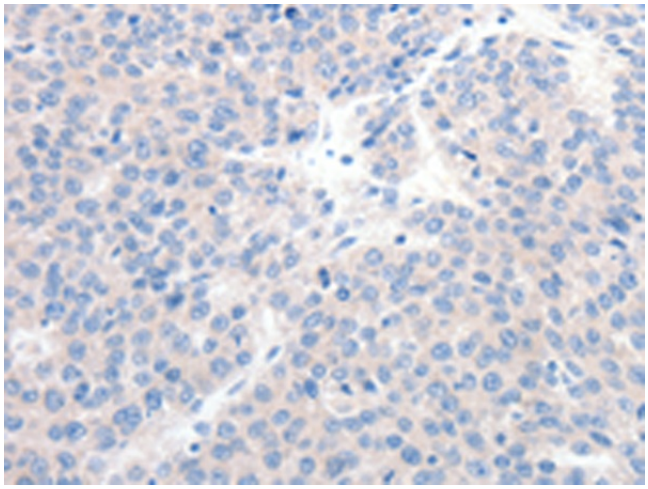
Background: Hexokinases phosphorylate glucose to produce glucose-6-phosphate; the first step in most glucose metabolism pathways. Alternative splicing of this gene results in three tissue-specific forms of glucokinase; one found in pancreatic islet beta cells and two found in liver. The protein localizes 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).

Synonyms: FGQTL3; GK; GLK; HHF3; HK4; HKIV; HXKP; LGLK; MODY2

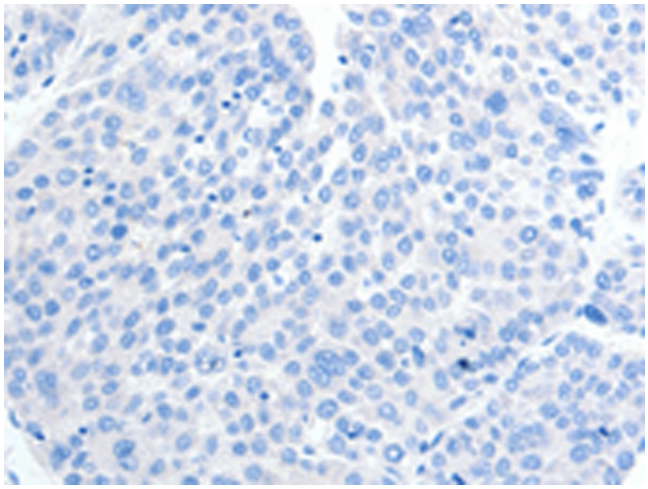
Protein Families: Druggable Genome

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

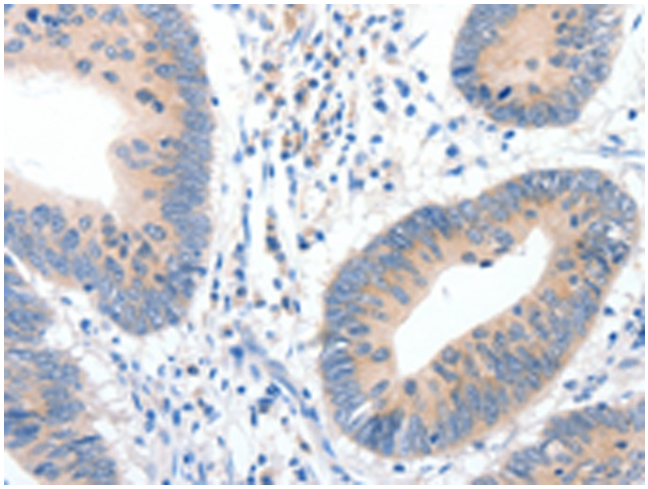
Product images:



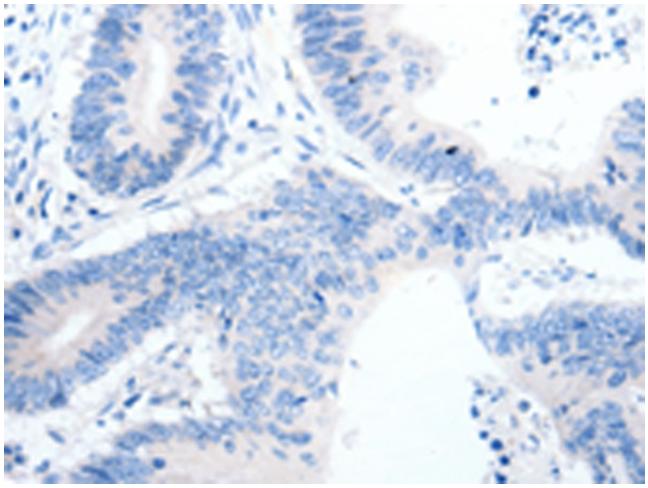
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321074 (GCK Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321074 (GCK Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA321074 (GCK Antibody) at dilution 1/20 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human colon cancer tissue using TA321074 (GCK Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)