

Datasheet for ABIN7267397
anti-GCK antibody (AA 250-465)



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1 Image

Overview

Quantity:	100 µL
Target:	GCK
Binding Specificity:	AA 250-465
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GCK antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Glucokinase (GCK) Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 250-465 of human Glucokinase (Glucokinase (GCK)) (NP_000153.1).
Sequence:	RMCVNTEWGA FGDSGELDEF LLEYDRLVDE SSANPGQQLY EKLIGGKYMGE ELVRLVLLRL VDENLLFHGE ASEQLRTRGA FETRFVSQVE SDTGDRKQIY NILSTLGLRP STTDCDIVRR ACESVSTRAA HMCSAGLAGV INRMRESRSE DVMRITVGVD GSVYKLHPSF KERFHASVRR LTPSCEITFI ESEEGSGRGA ALVSAVACKK ACMLGQ
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Product Details

Purification: Affinity purification

Target Details

Target: GCK

Alternative Name: GCK ([GCK Products](#))

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).,GCK,FGQTL3,GK,GLK,HHF3,HK4,HKIV,HXKP,LGLK,MODY2,Cancer,Signal Transduction,Endocrine & Metabolism,Carbohydrate metabolism,Warburg Effect,GCK

Molecular Weight: 52kDa

Gene ID: 2645

UniProt: [P35557](#)

Pathways: [MAPK Signaling](#), [Positive Regulation of Peptide Hormone Secretion](#), [Carbohydrate Homeostasis](#), [Cellular Glucan Metabolic Process](#), [Regulation of Carbohydrate Metabolic Process](#)

Application Details

Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

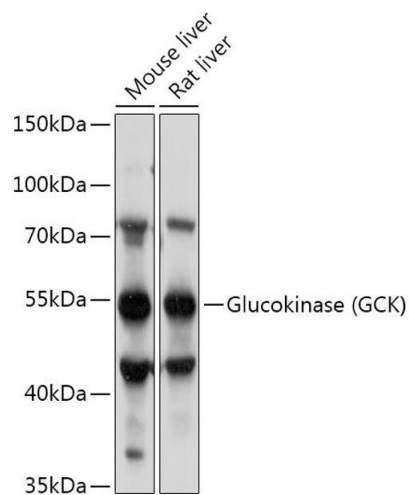
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using Glucokinase (GCK) antibody (ABIN7267397) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.