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# Datasheet for ABIN969172 anti-GCK antibody

3 Images

2 Publications



#### Overview

Quantity:	100 µL
Target:	GCK
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA

#### Product Details

Immunogen:	Purified recombinant fragment of human GCK expressed in E. coli.
Clone:	4G6
lsotype:	lgG1
Purification:	purified

## Target Details

Target:	GCK
Alternative Name:	GCK (GCK Products)
Background:	Description: 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

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### Target Details

	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).
	Aliases: GK, GLK, HK4, HHF3, HKIV, HXKP, LGLK, MODY2, FGQTL3
Molecular Weight:	52 kDa
Gene ID:	2645
HGNC:	2645
Pathways:	MAPK Signaling, Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis
	, Cellular Glucan Metabolic Process, Regulation of Carbohydrate Metabolic Process

### Application Details

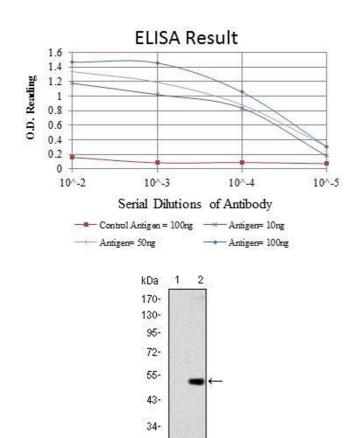
Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C, -20°C for long term storage
Publications	
Product cited in:	Trilck, Peter, Zheng, Frank, Dobrenis, Mascher, Rolfs, Frech: "Diversity of glycosphingolipid GM2

and cholesterol accumulation in NPC1 patient-specific iPSC-derived neurons." in: **Brain** research, Vol. 1657, pp. 52-61, (2016) (PubMed).

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26-

17-11-

kDa

170-130-95-72-55-43-34-26-17-111

#### **ELISA**

**Image 1.** Red: Control Antigen (100 ng), Purple: Antigen (10 ng), Green: Antigen (50 ng), Blue: Antigen (100 ng),

#### Western Blotting

**Image 2.** Western blot analysis using GCK mAb against HEK293 (1) and GCK-hIgGFc transfected HEK293 (2) cell lysate.

Western Blotting		
Image 3. Western blot analysis using GCK mAb against		
human GCK (AA: 1-198) recombinant protein. (Expected		
MW is 48.2 kDa)		

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