

A5170

Leader in Biomolecular Solutions for Life Science



# Glucokinase (GCK) Rabbit mAb

Catalog No.: A5170

Recombinant

## Basic Information

### Observed MW

52kDa

### Calculated MW

52kDa

### Category

SMab Recombinant Monoclonal  
Antibody

### Applications

WB,IP,ELISA

### Cross-Reactivity

Human,Mouse,Rat

### CloneNo number

ARC1226

## Background

This gene encodes a member of the hexokinase family of proteins. Hexokinases phosphorylate glucose to produce glucose-6-phosphate, the first step in most glucose metabolism pathways. 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. The use of multiple promoters and alternative splicing of this gene result in distinct protein isoforms that exhibit tissue-specific expression in the pancreas and liver. In the pancreas, this enzyme plays a role in glucose-stimulated insulin secretion, while in the liver, this enzyme is important in glucose uptake and conversion to glycogen. Mutations in this gene that alter enzyme activity have been associated with multiple types of diabetes and hyperinsulinemic hypoglycemia.

## Recommended Dilutions

**WB** 1:1000 - 1:4000

**IP** 0.5µg-4µg antibody for  
200µg-400µg extracts  
of whole cells

**ELISA** Recommended starting  
concentration is 1  
µg/mL. Please optimize  
the concentration  
based on your specific  
assay requirements.

## Immunogen Information

### Gene ID

2645

### Swiss Prot

P35557

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 271-421 of human Glucokinase (GCK) (P35557).

### Synonyms

GK; GLK; HK4; HHF3; HKIV; HXKP; LGLK; MODY2; PNDM1; FGQTL3; Glucokinase (GCK)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

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

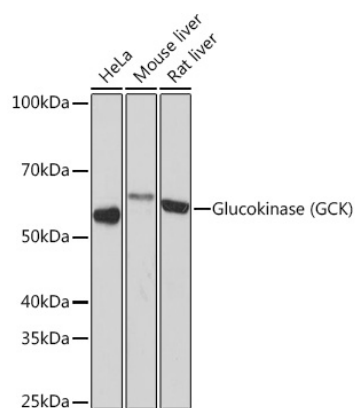
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

## Contact

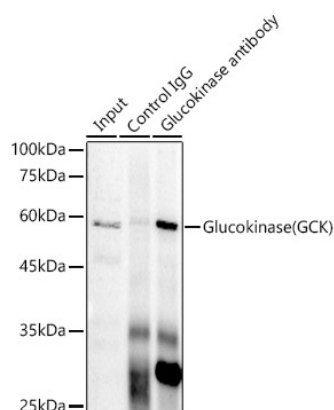


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## Validation Data



Western blot analysis of various lysates using Glucokinase (GCK) (GCK) Rabbit mAb (A5170) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 30s.



Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg Glucokinase (GCK) antibody (A5170). Western blot was performed from the immunoprecipitate using Glucokinase (GCK) antibody (A5170) at a dilution of 1:1000.