

## Anti-GLK Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human,Rat (predicted:Mouse,Chicken,Dog,Pig,Horse,Rabbit)
Molecular Weight:	Theoretical: 51 kDa. Actual: 52 kDa.
Purification:	Protein A purified

### Applications

1. Protein: rat liver lysates, 30 µg;  
Primary: Anti-GLK (TMAB-06510) at 1: 200;  
Secondary: HRP conjugated Goat Anti-Rabbit IgG at 1: 3000;  
ECL excited the fluorescence;  
Predicted band size: 51 kD  
Observed band size: 51 kD
2. Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min;  
Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (GLK) polyclonal Antibody, Unconjugated (TMAB-06510) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.
3. Blank control: A431.  
Primary Antibody (green line): Rabbit Anti-GLK antibody (TMAB-06510)  
Dilution: 1 µg /10<sup>6</sup> cells;  
Isotype Control Antibody (orange line): Rabbit IgG.  
Secondary Antibody: Goat anti-rabbit IgG-AF647  
Dilution: 1 µg /test.  
Protocol  
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
4. Sample: Panc-1 (Human) Cell Lysate at 30 µg  
Primary: Anti-GLK (TMAB-06510) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 51 kD  
Observed band size: 51 kD

Application: WB,ICC/IF,FCM

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Recommended WB: 1:500-2000; ICC/IF: 1:100-500; FCM: 3µg/Test

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### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human GCK

Antigen Species: Human

Gene ID: 2645

Uniprot ID: P35557

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### Research Background

Hexokinases phosphorylate glucose to produce glucose 6 phosphate, thus committing glucose to the glycolytic pathway. 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, also called maturity onset diabetes of the young, type 2; mutations have also been associated with persistent hyperinsulinemic hypoglycemia of infancy (PHHI).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481

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