

## Product datasheet for **TA357882**

### Glucokinase (GCK) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	<b>Expected reactivity:</b> Cow, Dog, Guinea Pig, Horse, Human, Mouse, Rabbit, Rat, Sheep <b>Homology:</b> Cow: 93%; Dog: 100%; Guinea Pig: 100%; Horse: 93%; Human: 100%; Mouse: 93%; Rabbit: 100%; Rat: 100%; Sheep: 93%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	51kDa
Gene Name:	glucokinase
Database Link:	<a href="#">NP_277043</a> <a href="#">Entrez Gene 2645 Human</a> <a href="#">P35557-3</a>



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**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:**

GK; GLK; glucokinase; Hexokinase-4; Hexokinase-D; HHF3; HK4; HKIV; HXKP; MODY2

**Protein Families:**

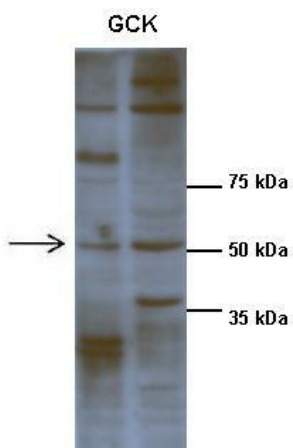
Druggable Genome

**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:**

WB Suggested Anti-GCK Antibody  
Titration: 1.0 ug/ml  
Positive Control: COLO205 Whole Cell



See Immunoblot 2 Data and customer Feedback for more Information

Lanes:  
 1: 50 ug HEP3B lysate, 2: 50 ug HEP3B lysate  
 Primary Antibody Dilution:  
 1:1000  
 Secondary Antibody:  
 Anti-rabbit-HRP  
 Secondary Antibody Dilution:  
 1:1000  
 Gene Name:  
 GCK  
 Submitted by:  
 Received from anonymous