

## **Product datasheet for AP14758PU-N**

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# Glucokinase (GCK) (C-term) Rabbit Polyclonal Antibody

**Product data:** 

**Product Type:** Primary Antibodies

Applications: IHC, WB

Recommended Dilution: ELISA: 1/1,000.

Western blotting: 1/100 - 1/500. Immunohistochemistry: 1/50 - 1/100.

Flow cytometry.

Reactivity: Human, Mouse

**Host:** Rabbit

**Isotype:** lg

Clonality: Polyclonal

**Immunogen:** This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide

selected from the C-terminal region of human GCK.

**Specificity:** This antibody reacts to GCK.

Formulation: PBS with 0.09% (W/V) sodium azide

State: Purified

State: Liquid purified Ig

**Concentration:** lot specific

**Purification:** Protein G column, eluted with high and low pH buffers and neutralized immediately, followed

by dialysis against PBS

**Conjugation:** Unconjugated

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**Gene Name:** glucokinase

Database Link: Entrez Gene 2645 Human

P35557





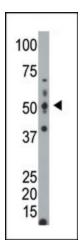
#### Background:

Hexokinases phosphorylate glucose to produce glucose-6-phosphate, thus committing glucose to the glycolytic pathway. Alternative splicing of the gene for GCK 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 the gene have been associated with non-insulin dependent diabetes mellitus (NIDDM), also called maturity onset diabetes of the young, type 2 (MODY2); mutations have also been associated with persistent hyperinsulinemic hypoglycemia of infancy (PHHI).

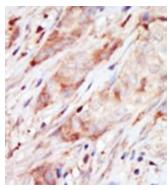
Synonyms:

Hexokinase type IV, Hexokinase-D, GCK, HK4, HKIV

## **Product images:**



The anti-GCK Pab is used in Western blot to detect GCK in mouse lung tissue lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.