

Anti-GCKR Antibody

Rabbit polyclonal antibody to GCKR Catalog # AP60006

Specification

Anti-GCKR Antibody - Product Information

Application WB
Primary Accession Q14397
Other Accession Q91X44

Reactivity Human, Mouse, Rat, Monkey
Host Rabbit

Clonality Polyclonal Calculated MW 68685

Anti-GCKR Antibody - Additional Information

Gene ID 2646

Other Names

Glucokinase regulatory protein; GKRP; Glucokinase regulator

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human GCKR. The exact sequence is proprietary.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-GCKR Antibody - Protein Information

Name GCKR {ECO:0000303|PubMed:8589523, ECO:0000312|HGNC:HGNC:4196}

Function

Regulates glucokinase (GCK) by forming an inactive complex with this enzyme (PubMed:23621087, PubMed:23733961). Acts by promoting GCK recruitment to the nucleus, possibly to provide a reserve of GCK that can be quickly released in the cytoplasm after a meal (PubMed:10456334). The affinity of GCKR for GCK is modulated by fructose metabolites: GCKR with bound fructose 6-phosphate has increased affinity for GCK, while GCKR with bound fructose 1-phosphate has strongly decreased



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affinity for GCK and does not inhibit GCK activity (PubMed: 23621087, PubMed:23733961).

Cellular Location

Cytoplasm. Nucleus. Mitochondrion {ECO:0000250|UniProtKB:Q07071}. Note=Under low glucose concentrations, GCKR associates with GCK and the inactive complex is recruited to the hepatocyte nucleus.

Tissue Location

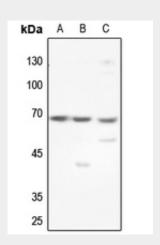
Found in liver and pancreas. Not detected in muscle, brain, heart, thymus, intestine, uterus, adipose tissue, kidney, adrenal, lung or spleen.

Anti-GCKR Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

Anti-GCKR Antibody - Images



Western blot analysis of GCKR expression in HEK293T (A), Hela (B), HGC27 (C) whole cell lysates.

Anti-GCKR Antibody - Background

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