

Anti-GCKR Antibody

Rabbit polyclonal antibody to GCKR Catalog # AP60006

Product Information

WB
<u>Q14397</u>
<u>Q91X44</u>
Human, Mouse, Rat, Monkey
Rabbit
Polyclonal
68685

Additional Information

Gene ID	2646
Other Names	Glucokinase regulatory protein; GKRP; Glucokinase regulator
Target/Specificity	Recognizes endogenous levels of GCKR protein.
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

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: <u>23621087</u> , PubMed: <u>23733961</u>). 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: <u>10456334</u>). 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 affinity for GCK and does not inhibit GCK activity (PubMed: <u>23621087</u> , PubMed: <u>23733961</u>).
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.

Background

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

Images



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

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