Product datasheet

Anti-GCK Antibody

Catalog Number: *A00884-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-GCK Antibody
Gene Name	GCK
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, ICC/IF, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human Glucokinase recombinant protein (Position: Y234-T431).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	52 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Glucokinase(GCK) is an enzyme that facilitates phosphorylation of glucose to glucose-6-phosphate. 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).

Reference

Anti-GCK Antibody被引用在1文献中。

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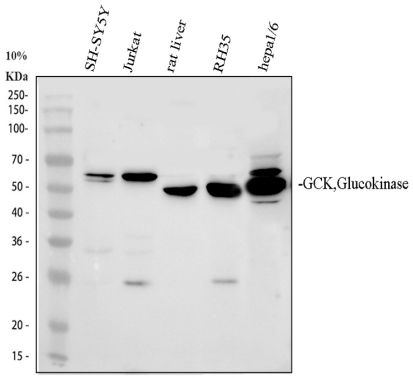
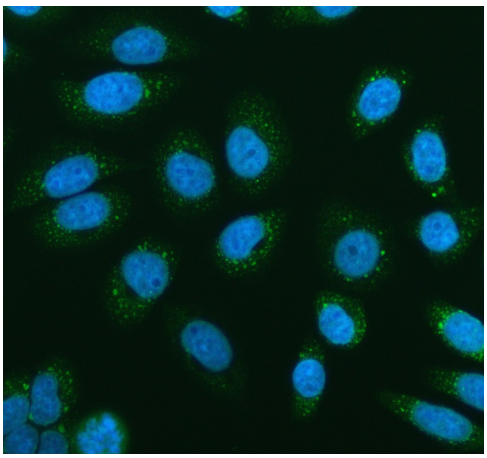
Selected Validation Data



Western blot analysis of GCK using anti-GCK antibody (A00884-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human SH-SY5Y whole cell lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: rat liver tissue lysates,
Lane 4: rat RH35 whole cell lysates,
Lane 5: mouse HEPA1-6 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-GCK antigA03957-Aen affinity purified polyclonal antibody (A00884-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for GCK at approximately 52 kDa. The expected band size for GCK is at 52 kDa.



IF analysis of GCK using anti-GCK antibody (A00884-1).
GCK was detected in an immunocytochemical section of SiHa cells. The section was incubated with rabbit anti-GCK Antibody (A00884-1) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).