

GCK Monoclonal Antibody

Description

Product type	Primary Antibody
Code	BT-MCA0613
Host	Mouse
Isotype	IgG
Size	50ul, 100ul
Immunogen	Purified recombinant fragment of human GCK expressed in E. Coli.
Mol wt	N/A
Species reactivity	Human
Clonality	Monoclonal
Recommended application	WB, ELISA
Concentration	1 mg/ml
Full name	Glucokinase
Synonyms	GCK; Glucokinase; Hexokinase type IV; HK IV; Hexokinase-4; HK4; Hexokinase-D

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

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).

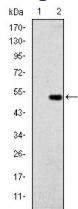
Recommended Dilution

ELISA: 1:10000

WB: 1:500 - 1:2000

Not yet tested in other applications.

Images



Western Blot analysis using GCK Monoclonal antibody against HEK293 (1) and GCK-hIgGFc transfected HEK293 (2) cell lysate.

Storage

-20°C for one year