

Anti-Glucokinase antibody - N-terminal ab37796

★★★★★ [2 Abreviews](#) [20 References](#) [3 图像](#)

概述

产品名称	Anti-Glucokinase抗体- N-terminal
描述	兔多克隆抗体to Glucokinase - N-terminal
宿主	Rabbit
经测试应用	适用于: ELISA, ICC/IF, WB, IHC-P
种属反应性	与反应: Mouse, Rat, Human, Pig, Common marmoset
免疫原	Synthetic peptide corresponding to Human Glucokinase (N terminal) conjugated to Keyhole Limpet Haemocyanin (KLH). Database link: P35557 (Peptide available as ab108095)
阳性对照	Human breast carcinoma and hepatocarcinoma tissues; HepG2 and mouse liver tissue cell lysates.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
存储溶液	Preservative: 0.09% Sodium azide Constituent: PBS
纯度	Protein G purified
纯化说明	ab37796 was eluted out with both high and low pH buffers and neutralised immediately after elution, followed by dialysis against PBS.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee [Abpromise™](#) 承诺保证使用ab37796于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ELISA		1/1000.
ICC/IF		Use a concentration of 1 - 5 µg/ml.
WB	★★★★☆ (2)	1/100 - 1/500. Detects a band of approximately 65 kDa (predicted molecular weight: 52 kDa).
IHC-P		1/50 - 1/100.

靶标

功能

Catalyzes the initial step in utilization of glucose by the beta-cell and liver at physiological glucose concentration. Glucokinase has a high Km for glucose, and so it is effective only when glucose is abundant. The role of GCK is to provide G6P for the synthesis of glycogen. Pancreatic glucokinase plays an important role in modulating insulin secretion. Hepatic glucokinase helps to facilitate the uptake and conversion of glucose by acting as an insulin-sensitive determinant of hepatic glucose usage.

组织特异性

Isoform 1 is expressed in pancreas. Isoform 2 and isoform 3 is expressed in liver.

疾病相关

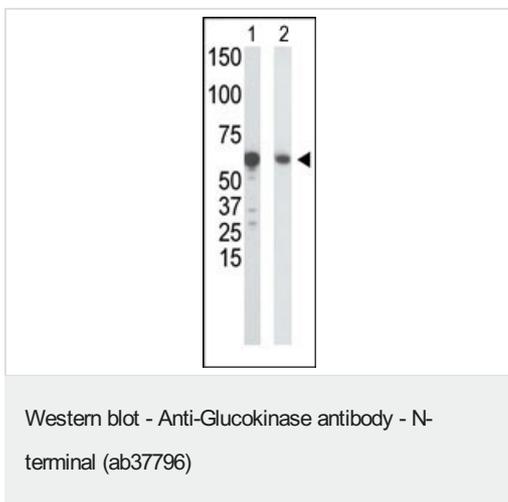
Defects in GCK are the cause of maturity-onset diabetes of the young type 2 (MODY2) [MIM:125851]; also shortened MODY-2. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.

Defects in GCK are the cause of familial hyperinsulinemic hypoglycemia type 3 (HHF3) [MIM:602485]; also known as persistent hyperinsulinemic hypoglycemia of infancy (PHHI) or congenital hyperinsulinism. HHF is the most common cause of persistent hypoglycemia in infancy. Unless early and aggressive intervention is undertaken, brain damage from recurrent episodes of hypoglycemia may occur.

序列相似性

Belongs to the hexokinase family.

图片



All lanes : Anti-Glucokinase antibody - N-terminal (ab37796)

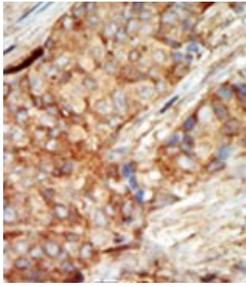
Lane 1 : Hep G2 cell lysate

Lane 2 : Mouse liver lysate

Predicted band size: 52 kDa

Observed band size: 65 kDa

Additional bands at: 30 kDa, 37 kDa, 50 kDa. We are unsure as to the identity of these extra bands.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Glucokinase antibody - N-terminal (ab37796)

Formalin fixed, paraffin embedded human breast carcinoma tissue using ab37796, followed by AEC staining.

Immunocytochemistry/ Immunofluorescence - Anti-Glucokinase antibody - N-terminal (ab37796)

ICC/IF image of ab37796 stained HeLa cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab37796, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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