À des fins de recherche uniquement

Anticorps Monoclonal anti-GCK

Numéro de catalogue:67216-1-Ig 1 Publications

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Antibodies | ELISA kits | Proteins
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Informations de base

Numéro de catalogue:
67216-1-Ig

Taille:
150ul , Concentration: 1600 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Hôte:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8116

Numéro d'acquisition GenBank:
BC001890

Identification du gène (NCBI):
2645

Nom complet:
glucokinase (hexokinase 4)

MW calculé
52 kDa

MW observés:
52 kDa

Méthode de purification:
Purification par protéine G

CloneNo.:
1C3A3

Dilutions recommandées:
WB 1:5000-1:20000
IHC 1:300-1:1000
IF 1:200-1:800

Applications

Applications testées:
IF, IHC, WB, ELISA

Demandes citées:
WB

Spécificité de l'espèce:
Humain, porc, rat, souris

Espèces citées:
Humain, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) À défaut, 'le démasquage de l'antigène peut être 'effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB : tissu hépatique de porc, cellules HepG2, cellules HSC-T6, cellules L02, cellules SMMC-7721, tissu hépatique de rat, tissu hépatique de souris

IHC : tissu de cancer du foie humain,

IF : tissu de cancer du foie humain,

Informations générales

Glucokinase (GCK) is a structurally and functionally unique member of hexokinase family. It is expressed only in mammalian liver and pancreatic islet beta cells. Because of its unique functional characteristics, the enzyme plays an important regulatory role in glucose metabolism.The rate of glucose metabolism in liver and pancreas is a function of the activity of the enzyme(PMID:1740341). Moreover, GCK has been found to have relationship with diabetes. Defects in GCK are the cause of maturity-onset diabetes of the young type 2 (MODY2) and familial hyperinsulinemic hypoglycemia type 3 (HHF3). It has 3 isoforms produced by alternative splicing with the same molecular mass of 52 kDa.

Publications notables

Autrice	Pubmed ID	Journal	Application
Sa Yang	35873595	Front Pharmacol	WB

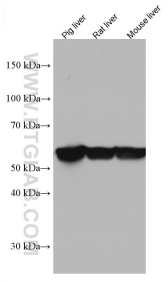
Stockage

Stockage:
Stocker à -20 °C.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

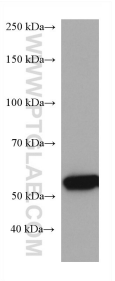
***** Les 20ul contiennent 0,1% de BSA.**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

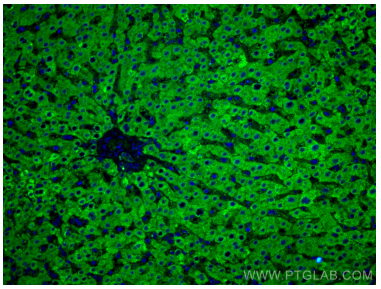
Données de validation sélectionnées



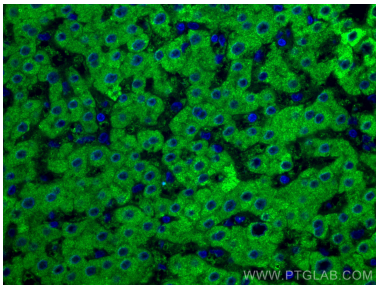
pig liver tissue were subjected to SDS PAGE followed by western blot with 67216-1-Ig (GCK antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



pig liver tissue were subjected to SDS PAGE followed by western blot with 67216-1-Ig (GCK antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using GCK antibody (67216-1-Ig, Clone: 1C3A3) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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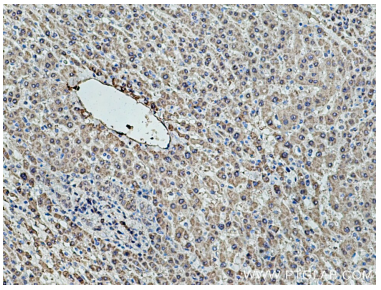
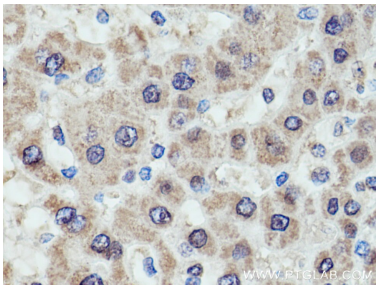


Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67216-1-Ig (GCK antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67216-1-Ig (GCK antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).