For Research Use Only

GCK Monoclonal antibody, PBS Only

Catalog Number:67216-1-PBS

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
67216-1-PBS

Size:
100ug , Concentration: 1mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG8116

GenBank Accession Number:
BC001890

GeneID (NCBI):
2645

UNIPROT ID:
P35557

Full Name:
glucokinase (hexokinase 4)

Calculated MW:
52 kDa

Observed MW:
52 kDa

Purification Method:
Protein G purification

CloneNo.:
1C3A3

Applications

Tested Applications:
WB, IHC, IF-P, Indirect ELISA

Species Specificity:
human, mouse, rat, pig

Background Information

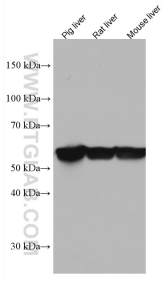
Glucokinase (GCK) is a structurally and functionally unique member of hexokinase family. It is expressed only in mammalian liver and pancreatic islet beta cells. Because of its unique functional characteristics, the enzyme plays an important regulatory role in glucose metabolism.The rate of glucose metabolism 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.

Storage

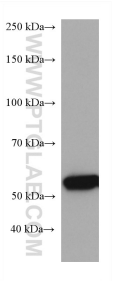
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

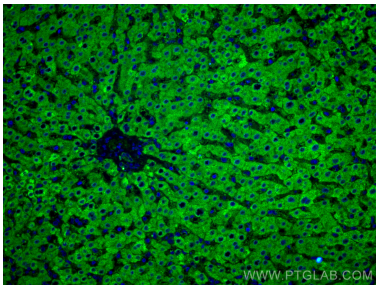
Selected Validation Data



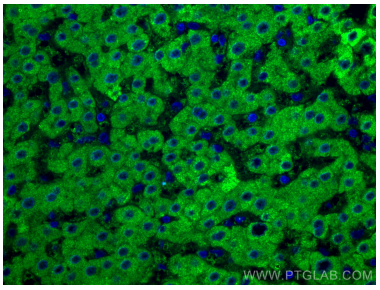
pig liver tissue were subjected to SDS PAGE followed by western blot with 67216-1-Ig (GCK antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67216-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 67216-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67216-1-PBS in a different storage buffer formulation.



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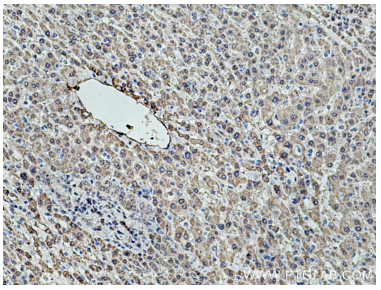
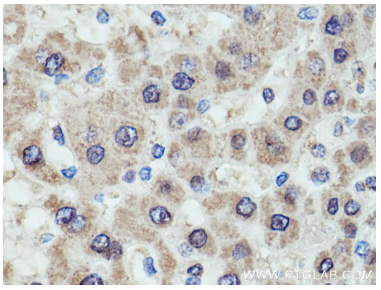


Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67216-1-Ig (GCK antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 67216-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67216-1-PBS in a different storage buffer formulation.