For Research Use Only

ADPGK Polyclonal antibody

Catalog Number:15639-1-AP 1 Publications

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Basic Information

Catalog Number:
15639-1-AP

Size:
150ul , Concentration: 350 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8105

GenBank Accession Number:
BC006112

GeneID (NCBI):
83440

Full Name:
ADP-dependent glucokinase

Calculated MW:
497 aa, 54 kDa

Observed MW:
51 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200
IF 1:20-1:200

Applications

Tested Applications:
IF, IHC, WB, ELISA

Cited Applications:
IF, WB

Species Specificity:
human, mouse, rat

Cited Species:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells, Jurkat cells, MOLT-4 cells

IHC : human liver tissue,

IF : HepG2 cells,

Background Information

ADP-dependent glucokinase (ADPGK) has frst been described 1994 in hyperthermophilic archaea as a novel glucose-phosphorylating enzyme dependent on ADP (adenosine diphosphate) instead of ATP (adenosine triphosphate). Highest ADPGK expression is found in immune cells of both myeloid and lymphoid lineages. Catalyzes the phosphorylation of D-glucose to D-glucose 6-phosphate using ADP as the phosphate donor. GDP and CDP can replace ADP, but with reduced efficiency (By similarity).

Notable Publications

Author	Pubmed ID	Journal	Application
Kai Zhang	34867191	Front Mol Neurosci	WB, IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% 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)
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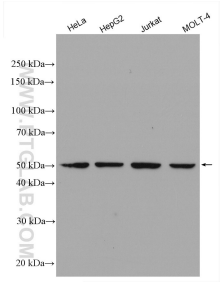
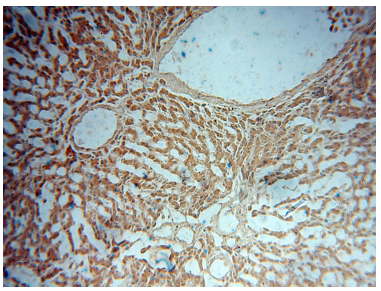
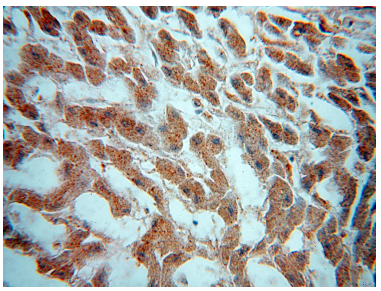
Selected Validation Data



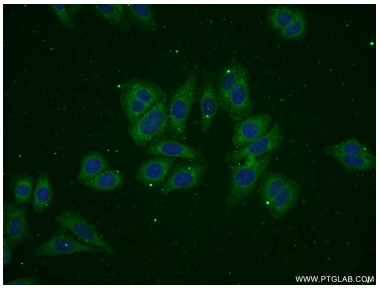
Various lysates were subjected to SDS PAGE followed by western blot with 15639-1-AP (ADPGK antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 15639-1-AP (ADPGK antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 15639-1-AP (ADPGK antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HepG2 cells using 15639-1-AP (ADPGK antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).