For Research Use Only

PDK1 Polyclonal antibody

Catalog Number:10026-1-AP 25 Publications

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
10026-1-AP

Size:
347 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0025

GenBank Accession Number:
BC039158

GeneID (NCBI):
5163

UNIPROT ID:
Q15118

Full Name:
pyruvate dehydrogenase kinase, isozyme 1

Calculated MW:
436 aa, 49 kDa

Observed MW:
46-55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

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 : mouse liver tissue, mouse small intestine tissue, NIH/3T3 cells

IP : NIH/3T3 cells,

IHC : human small intestine tissue, human colon tissue, human liver tissue

Background Information

PDK1(pyruvate dehydrogenase kinase isoform 1) is also named as PDHK1 and belongs to the PDK/BCKDK protein kinase family. It inhibits the mitochondrial pyruvate dehydrogenase complex by phosphorylation of the E1 alpha subunit, thus contributing to the regulation of glucose metabolism (PMID:17683942). Starvation increases islet PDK activity (PMID:11723055). PDK1 has 2 isoforms with the MW of 49 and 52 kD, and a 28aa-transit-peptide in the N-terminal can be removed in the mature form. This antibody is speicfic to PDK1.

Notable Publications

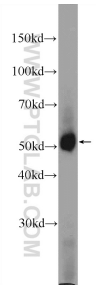
Author	Pubmed ID	Journal	Application
Xiao Meng Zhang	33062708	J Diabetes Res	WB
Yu-Hsuan Kuo	34589439	Front Oncol	IHC
Wenjuan Qin	31506552	Sci Rep	IHC

Storage

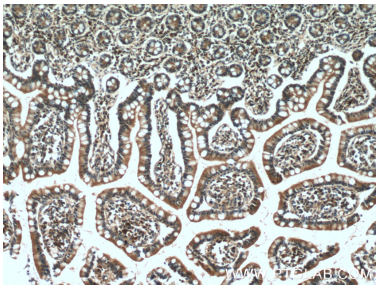
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

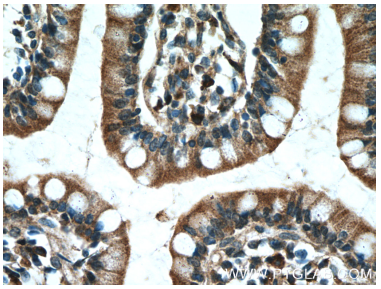
Selected Validation Data



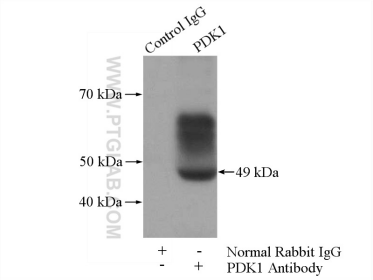
mouse liver tissue were subjected to SDS PAGE followed by western blot with 10026-1-AP (PDK1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 10026-1-AP (PDK1 antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human small intestine tissue slide using 10026-1-AP (PDK1 antibody) at dilution of 1:200 (under 40x lens).



IP result of anti-PDK1 (IP:10026-1-AP, 6ug; Detection:10026-1-AP 1:1000) with NIH/3T3 cells lysate 1200ug.