

For Research Use Only

# PDK1 Polyclonal antibody

Catalog Number: 10026-1-AP

27 Publications



## Basic Information

### Catalog Number:

10026-1-AP

### Size:

150ul, Concentration: 347 µg/ml by Bradford method using BSA as the standard;

### 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 µg for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, 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 specific 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, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

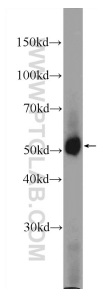
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

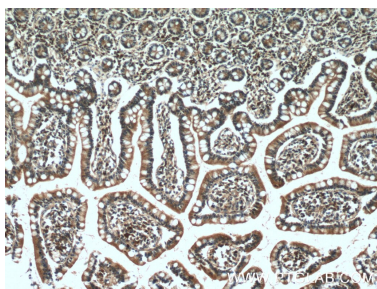
E: proteintech@ptglab.com  
W: ptglab.com

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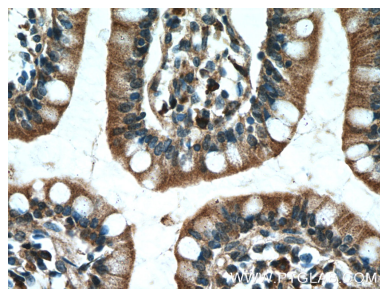
Selected Validation Data



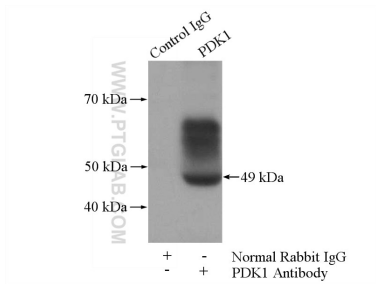
mouse liver tissue were subjected to SDS PAGE followed by western blot with 10026-1-AP (PDK1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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.