

For Research Use Only

# PDK3 Polyclonal antibody

Catalog Number: 12215-1-AP

6 Publications



## Basic Information

### Catalog Number:

12215-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 347 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2879

### GenBank Accession Number:

BC015948

### GeneID (NCBI):

5165

### UNIPROT ID:

Q15120

### Full Name:

pyruvate dehydrogenase kinase, isozyme 3

### Calculated MW:

406 aa, 47 kDa

### Observed MW:

47 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 1:20-1:200

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB : mouse heart tissue, mouse kidney tissue

IP : mouse heart tissue,

IHC : human heart tissue, human skeletal muscle tissue

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

## Background Information

PDK3([Pyruvate dehydrogenase [lipoamide]] kinase isozyme 3, mitochondrial) is also named as PDHK3 and belongs to the PDK/BCKDK protein kinase family. It inhibits pyruvate dehydrogenase activity by phosphorylation of the E1 subunit PDHA1, and thereby regulates glucose metabolism and aerobic respiration. It has 2 isoforms produced by alternative splicing with the molecular weight of 47 and 48 kDa. This protein can exist as a dimer with the molecular weight of 90 kDa(PMID:11978179).

## Notable Publications

Author	Pubmed ID	Journal	Application
Yu-Hsuan Kuo	34589439	Front Oncol	IHC
Jose L Izquierdo-Garcia	26045167	Cancer Res	WB
Wei-Yue Si	39725685	Commun Biol	WB

## 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

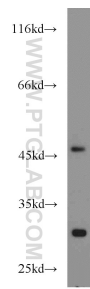
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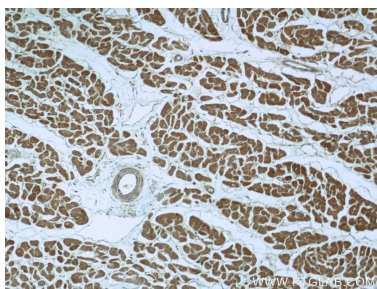
E: proteintech@ptglab.com  
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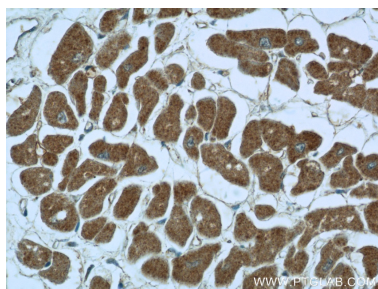
Selected Validation Data



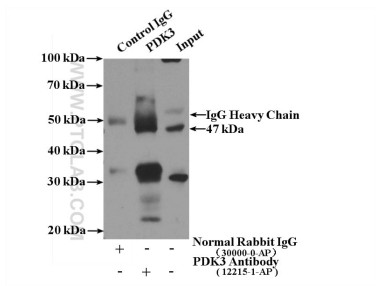
mouse heart tissue were subjected to SDS PAGE followed by western blot with 12215-1-AP (PDK3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human heart slide using 12215-1-AP (PDK3 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human heart slide using 12215-1-AP (PDK3 Antibody) at dilution of 1:50.



IP result of anti-PDK3 (IP:12215-1-AP, 4ug; Detection:12215-1-AP 1:1000) with mouse heart tissue lysate 4000ug.