

For Research Use Only

PDK3 Polyclonal antibody

Catalog Number: 12215-1-AP **4 Publications**



Basic Information

Catalog Number:

12215-1-AP

Size:

500 µg/ml

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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse

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 heart tissue, mouse kidney tissue

IP: mouse heart tissue,

IHC: human heart tissue, human skeletal muscle tissue

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
Yan-Zhu Chen	39173867	Environ Pollut	WB,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

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

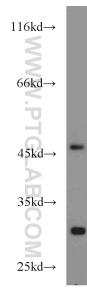
T: 4006900926

E: Proteintech-CN@ptglab.com

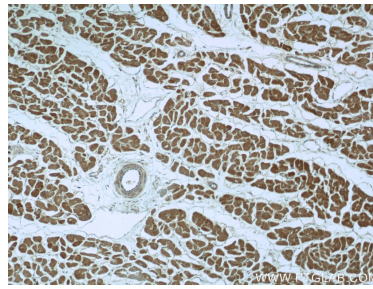
W: ptgcn.com

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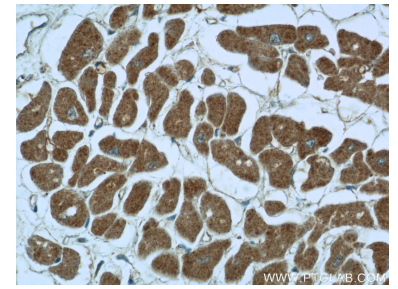
Selected Validation Data



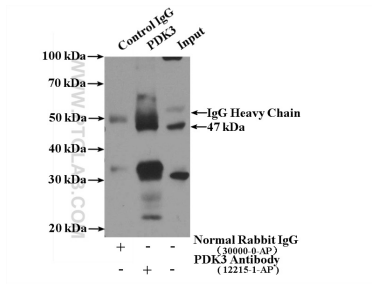
mouse heart tissue were subjected to SDS PAGE followed by western blot with 12215-1-AP (PDK3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.