

For Research Use Only

PDK3 Polyclonal antibody

Catalog Number: 12215-1-AP **6 Publications**



Basic Information

Catalog Number: 12215-1-AP	GenBank Accession Number: BC015948	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 500 ug/ml by Nanodrop and 347 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5165	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
Source: Rabbit	UNIPROT ID: Q15120	
Isotype: IgG	Full Name: pyruvate dehydrogenase kinase, isozyme 3	
Immunogen Catalog Number: AG2879	Calculated MW: 406 aa, 47 kDa	
	Observed MW: 47 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB: mouse heart tissue, mouse kidney tissue
Species Specificity: human, mouse	IP: mouse heart tissue,
Cited Species: human, mouse	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

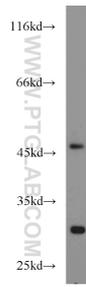
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

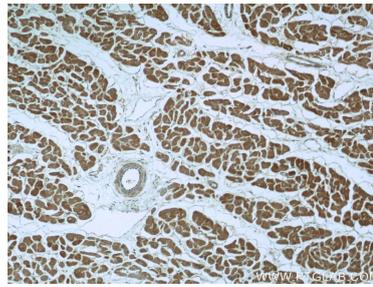
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

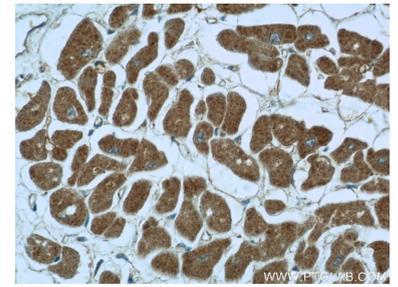
Selected Validation Data



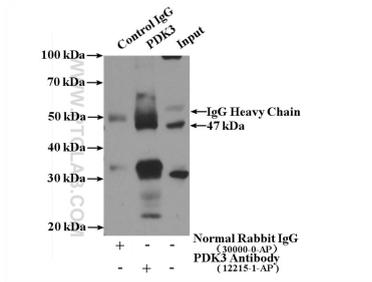
mouse heart tissue were subjected to SDS PAGE followed by western blot with 12215-1-AP (PDK3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.