

For Research Use Only

PDK1 Polyclonal antibody

Catalog Number: 18262-1-AP **5 Publications**



Basic Information

Catalog Number: 18262-1-AP	GenBank Accession Number: BC039158	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 267 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 5163	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	Full Name: pyruvate dehydrogenase kinase, isozyme 1	
Isotype: IgG	Calculated MW: 436 aa, 49 kDa	
Immunogen Catalog Number: AG13121	Observed MW: 46-55 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : HEK-293 cells, rat kidney tissue, NIH/3T3 cells, mouse liver tissue IHC : human heart tissue, IF : HEK-293 cells,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human, rat	
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

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
Fan Wang	28990055	Mol Med Rep	WB
Tao Zeng	28987868	Redox Biol	WB
Biao Ma	30833558	Nat Commun	WB

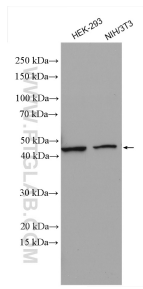
Storage

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

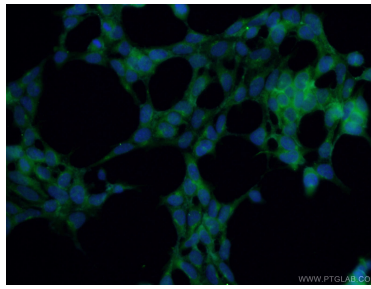
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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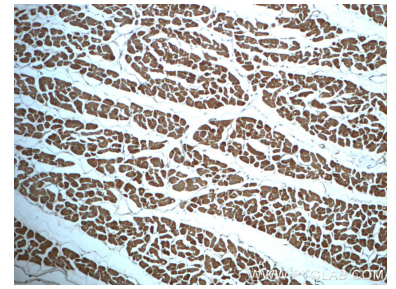
Selected Validation Data



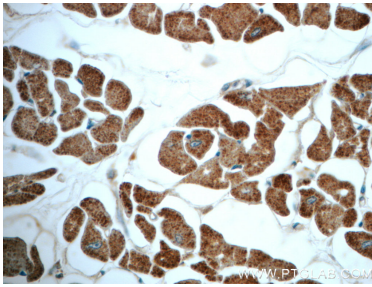
Various lysates were subjected to SDS PAGE followed by western blot with 18262-1-AP (PDK1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using 18262-1-AP (PDK1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human heart slide using 18262-1-AP (PDK1 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human heart slide using 18262-1-AP (PDK1 Antibody) at dilution of 1:50.