

For Research Use Only

PDK1 Polyclonal antibody

Catalog Number: 10026-1-AP **25 Publications**



Basic Information

Catalog Number: 10026-1-AP	GenBank Accession Number: BC039158	Purification Method: Antigen affinity purification
Size: 347 µg/ml	GeneID (NCBI): 5163	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q15118	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: pyruvate dehydrogenase kinase, isozyme 1	IHC 1:50-1:500
Immunogen Catalog Number: AG0025	Calculated MW: 436 aa, 49 kDa	
	Observed MW: 46-55 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : mouse liver tissue, mouse small intestine tissue, NIH/3T3 cells
Cited Applications: IHC, WB	IP : NIH/3T3 cells,
Species Specificity: human, mouse	IHC : human small intestine tissue, human colon tissue, human liver tissue
Cited Species: human, rat, mouse	

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
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 pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

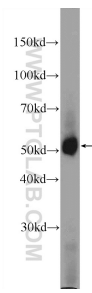
T: 4006900926

E: Proteintech-CN@ptglab.com

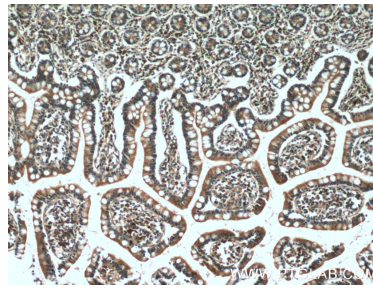
W: ptgcn.com

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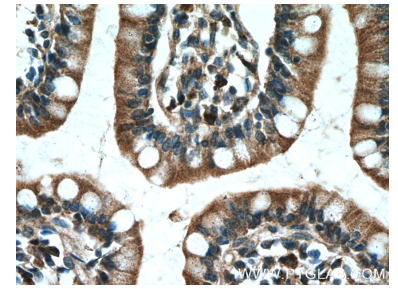
Selected Validation Data



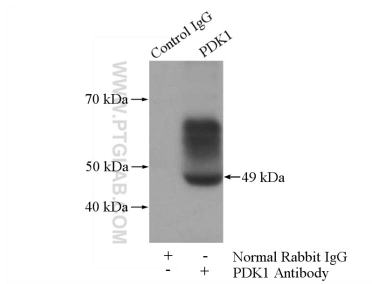
mouse liver tissue were subjected to SDS PAGE followed by western blot with 10026-1-AP (PDK1 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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, 6 μ g; Detection:10026-1-AP 1:1000) with NIH/3T3 cells lysate 1200 μ g.