For Research Use Only

PDK1 Polyclonal antibody

Catalog Number: 18262-1-AP

Featured Product



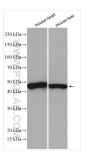


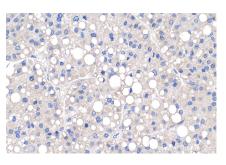
Basic Information	Catalog Number: 18262-1-AP	GenBank Accession Number: BC039158		Purification Method: Antigen affinity purification	
	Size: 150ul , Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG13121	Genel D (NCBI): 5163 UNIPROT ID: Q15118 Full Name: pyruvate dehydrog isozyme 1 Calculated MW: 436 aa, 49 kDa Observed MW: 46-55 kDa	genase kinase,	Recommended Dilutions: WB: 1:1000-1:6000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:500-1:2000	
Applications	Tested Applications:		Positive Controls:		
	Cited Applications: mouse live		e heart tissue, HEK-293 cells, NIH/3T3 cells, er tissue, rat liver tissue		
	WB, IHC, IF IP : SiHa cells, Species Specificity: IHC : human liver cancer tissue, human heart tissue, human kidney tissue, human breast cancer tissue, mouse kidney tissue, rat kidney tissue Cited Species: mouse, 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 Pu	bmed ID Jo	ournal	Application	
	Fan Wang 28	990055 M	ol Med Rep	WB	
	Tao Zeng 28	987868 Re	edox Biol	WB	
	Xuehui Wang 36	115854 Co	ell Death Dis	WB	
Storage	Storage: Store at -20°C. Stable for one year at Storage Buffer: PBS with 0.02% sodium azide and 5				
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ 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)E: proteintech@ptglab.comW: ptglab.com

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

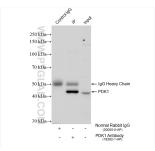
Selected Validation Data





Various lysates were subjected to SDS PAGE followed by western blot with 18262-1-AP (PDK1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human liver cancer tissue slide using 18262-1-AP (PDK1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-PDK1 (IP:18262-1-AP, 4ug; Detection:18262-1-AP 1:3000) with SiHa cells lysate 1520 ug.