For Research Use Only

## PDK4 Polyclonal antibody

Catalog Number:12949-1-AP

Featured Product



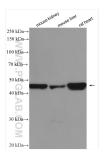


Size: 150ul, Concentration: 600 ug/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG3629	UNIPROT ID: Q16654 Full Name:	enase kinase,	Recommended Dilutions: WB: 1:2000-1:12000 IHC: 1:250-1:1000 IF/ICC: 1:200-1:800		
Source: Rabbit Isotype: IgG Immunogen Catalog Number:	Q 16654 Full Name: pyruvate dehydrogo isozyme 4 Calculated MW:	enase kinase,			
Isotype: IgG Immunogen Catalog Number:	pyruvate dehydrogr isozyme 4 Calculated MW:	enase kinase,			
			pyruvate dehydrogenase kinase,		
	Observed MW: 46 kDa				
Tested Applications:		Positive Controls:			
Cited Applications: WB, IHC, IF, ELISA	tissue, mouse tissue, rat hea IHC : human lu cancer tissue,		liver tissue, NCI-H1299 cells, mouse hear se skeletal muscle tissue, mouse kidney eart tissue		
Species Specificity: human, mouse, rat			ung cancer tissue, human pancreas , mouse heart tissue, mouse skeletal		
			-		
TE buffer pH 9.0; (*) Alternati	vely, antigen				
kinase family. It is upregulated by so of the pyruvate dehydrogenase com gluconeogenesis. Enhanced PDK4 ex starvation. Free fatty acids can activ	arvation in many tiss blex which blocks pyr pression may be caus ate peroxisome prolit	ues of the body o uvate oxidation ed by the increas	during starvation. This causes inactivation and conserves lactate and alanine for se in free fatty acids that occurs during		
Author Pub	med ID Jour	nal	Application		
Kosuke Tanaka 328	81962 PLos	One	IHC		
Yuezhu Zhang 314	91605 Ecot	oxicol Environ Sa	af WB		
Xiaoxin Zhang 332	:04328 The	anostics	WB		
Storage Buffer: PBS with 0.02% sodium azide and 50	0% glycerol, pH7.3				
Auquoting is unnecessary for -20°C	storage				
	WB, IHC, IF/ICC, ELISA   Cited Applications:   WB, IHC, IF, ELISA   Species Specificity:   human, mouse, rat   Cited Species:   human, mouse, rat, pig, bovine, goat   Note-IHC: suggested antigen in   TE buffer pH 9.0; (*) Alternation   retrieval may be performed with   buffer pH 6.0   Pyruvate dehydrogenase kinase isof   kinase family. It is upregulated by st   of the pyruvate dehydrogenase comp   gluconeogenesis. Enhanced PDK4 expression   Author Put   Kosuke Tanaka 328   Yuezhu Zhang 314   Xiaoxin Zhang 332   Storage: Storage Buffer:   PBS with 0.02% sodium azide and 50	WB, IHC, IF/ICC, ELISA   Cited Applications:   WB, IHC, IF, ELISA   Species Specificity:   human, mouse, rat   Cited Species:   human, mouse, rat, pig, bovine, goat   Note-IHC: suggested antigen retrieval with   TE buffer pH 9.0; (*) Alternatively, antigen   retrieval may be performed with citrate   buffer pH 6.0   Pyruvate dehydrogenase kinase isoform4 (PDK4) is also n   kinase family. It is upregulated by starvation in many tiss   of the pyruvate dehydrogenase complex which blocks pyr   gluconeogenesis. Enhanced PDK4 expression may be caus   starvation. Free fatty acids can activate peroxisome prolif   PPARa can promote PDK4 expression (PMID: 11554740).   Author Pubmed ID   Kosuke Tanaka 32881962   Yuezhu Zhang 31491605 Ecot   Xiaoxin Zhang 33204328 Ther   Storage: Storage: Store at -20°C. Stable for one year after shipment.	WB, IHC, IF/ICC, ELISA WB : mouse IC   Cited Applications: tissue, mouse   WB, IHC, IF, ELISA tissue, rat he   Species Specificity: IHC : human   human, mouse, rat cancer tissue   Cited Species: muscle tissue   human, mouse, rat, pig, bovine, goat IF/ICC : Hep0   Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen   retrieval may be performed with citrate buffer pH 6.0   Pyruvate dehydrogenase kinase isoform4 (PDK4) is also named as PDHK4 a kinase family. It is upregulated by starvation in many tissues of the body of of the pyruvate dehydrogenase complex which blocks pyruvate oxidation agluconeogenesis. Enhanced PDK4 expression may be caused by the increase starvation. Free fatty acids can activate peroxisome proliferator-activated PPARa can promote PDK4 expression (PMID: 11554740).   Author Pubmed ID Journal   Kosuke Tanaka 32881962 PLoS One   Yuezhu Zhang 31491605 Ecotoxicol Environ Sa   Xiaoxin Zhang 33204328 Theranostics   Storage: Storage Storage Buffer:   PBS with 0.02% sodium azide and 50% glycerol, pH7.3 PH7.3		

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free<br/>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.

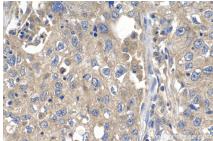
## Selected Validation Data



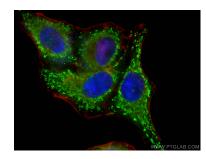
Various lysates were subjected to SDS PAGE followed by western blot with 12949-1-AP (PDK4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 12949-1-AP (PDK4 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 12949-1-AP (PDK4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PDK4 antibody (12949-1-AP) at dilution of 1:400 and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594phalloidin (red).