For Research Use Only

## PDK4 Polyclonal antibody

Catalog Number:12949-1-AP

Featured Product



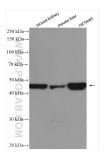


Basic Information	Catalog Number: 12949-1-AP	GenBank Accession Number: BC040239		Purification Method: Antigen affinity purification	
	Size:	GenelD (NCBI): 5166		Recommended Dilutions: WB 1:2000-1:12000 IHC 1:250-1:1000 IF/ICC 1:200-1:800	
	600 ug/ml				
	Source: UNIPROT ID:				
	Rabbit	Full Name:			
	Isotype:				
	IgG Immunogen Catalog Number: AG3629	pyruvate dehydrogenase kinase, isozyme 4 Calculated MW: 411 aa, 46 kDa Observed MW: 46 kDa			
	Applications				Tested Applications:
WB, IHC, IF/ICC, ELISA		WB : mouse l	WB : mouse liver tissue, NCI-H1299 cells, mouse hea		
Cited Applications:tissue, moustWB, IHC, IF, ELISAtissue, rat here		se skeletal muscle tissue, mouse kidney eart tissue			
		lung cancer tissue, human pancreas			
		e, mouse heart tissue, mouse skeletal Je, rat heart tissue			
Cited Species: human, mouse, rat, pig, bovine, go		at	IF/ICC : Hep		
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	kinase family. It is upregulated by of the pyruvate dehydrogenase co gluconeogenesis. Enhanced PDK4	y starvation in ma mplex which blo expression may tivate peroxisom	any tissues of the body of cks pyruvate oxidation be caused by the increa e proliferator-activated	and belongs to the PDK/BCKDK protein during starvation. This causes inactivat and conserves lactate and alanine for se in free fatty acids that occurs during receptor $\alpha$ (PPAR $\alpha$ ), and activation of	
		Pubmed ID	Journal	Application	
Notable Publications	Author P				
Notable Publications		2881962	PLoS One	IHC	
Notable Publications	Kosuke Tanaka 3	52881962 51491605	PLoS One Ecotoxicol Environ S		
Notable Publications	Kosuke Tanaka 3 Yuezhu Zhang 3				

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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

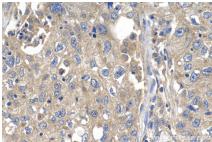
## Selected Validation Data



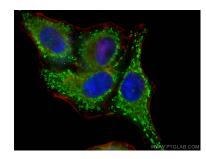
Various lysates were subjected to SDS PAGE followed by western blot with 12949-1-AP (PDK4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



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).