

Datasheet for ABIN711116 anti-PDPK1 antibody (pTyr9)

2 Images



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Quantity:	100 μL
Target:	PDPK1
Binding Specificity:	pTyr9
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDPK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human PDK1 around the phosphorylation site of Tyr9
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat
Purification:	Purified by Protein A.

Target Details

Target:	PDPK1	
Alternative Name:	PDPK1 (PDPK1 Products)	
Background:	Synonyms: 3-phosphoinositide-dependent protein kinase 1, hPDK1, PDPK1, PDK1	
	Background: Serine/threonine kinase which acts as a master kinase, phosphorylating and	
	activating a subgroup of the AGC family of protein kinases. Its targets include: protein kinase B	
	(PKB/AKT1, PKB/AKT2, PKB/AKT3), p70 ribosomal protein S6 kinase (RPS6KB1), p90	
	ribosomal protein S6 kinase (RPS6KA1, RPS6KA2 and RPS6KA3), cyclic AMP-dependent	
	protein kinase (PRKACA), protein kinase C (PRKCD and PRKCZ), serum and glucocorticoid-	
	inducible kinase (SGK1, SGK2 and SGK3), p21-activated kinase-1 (PAK1), protein kinase PKN	
	(PKN1 and PKN2). Plays a central role in the transduction of signals from insulin by providing	
	the activating phosphorylation to PKB/AKT1, thus propagating the signal to downstream	
	targets controlling cell proliferation and survival, as well as glucose and amino acid uptake and	
	storage. Negatively regulates the TGF-beta-induced signaling by: modulating the association o	
	SMAD3 and SMAD7 with TGF-beta receptor, phosphorylating SMAD2, SMAD3, SMAD4 and	
	SMAD7, preventing the nuclear translocation of SMAD3 and SMAD4 and the translocation of	
	SMAD7 from the nucleus to the cytoplasm in response to TGF-beta. Activates PPARG	
	transcriptional activity and promotes adipocyte differentiation. Activates the NF-kappa-B	
	pathway via phosphorylation of IKKB. The tyrosine phosphorylated form is crucial for the	
	regulation of focal adhesions by angiotensin II. Controls proliferation, survival, and growth of	
	developing pancreatic cells. Participates in the regulation of Ca(2+) entry and Ca(2+)-activated	
	K(+) channels of mast cells. Essential for the motility of vascular endothelial cells (ECs) and is	
	involved in the regulation of their chemotaxis. Plays a critical role in cardiac homeostasis by	
	serving as a dual effector for cell survival and beta-adrenergic response.	
Gene ID:	5170	
Pathways:	PI3K-Akt Signaling, TCR Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling	
	Pathway, Neurotrophin Signaling Pathway, Regulation of Leukocyte Mediated Immunity,	
	Positive Regulation of Immune Effector Process, Cell-Cell Junction Organization, Regulation of	
	Cell Size, Skeletal Muscle Fiber Development, CXCR4-mediated Signaling Events, Signaling	
	Events mediated by VEGFR1 and VEGFR2, VEGFR1 Specific Signals	
Application Details		
Application Notes:	WB 1:300-5000	
	ELISA 1:500-1000	
	IHC-P 1:200-400	

Application Details

IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500

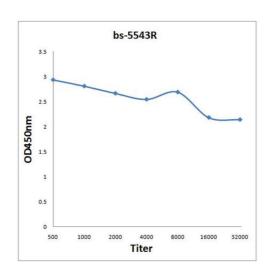
Restrictions:

For Research Use only

Handling

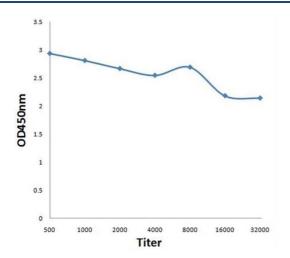
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Images



ELISA

Image 1. Antigen: 0.2 μ g/100 μ L Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450



ELISA

Image 2. Antigen: 0.2ug/100ul, Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000, TMB staining, Read the data in MicroplateReader by 450nm