

PKD1 (phospho Ser205) Polyclonal Antibody

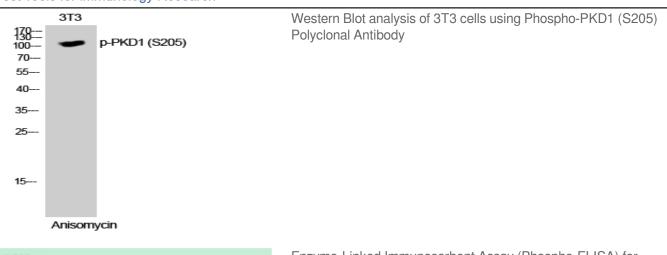
Catalog No :	YP0720
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	PKD1
Fields :	>>Rap1 signaling pathway;>>Aldosterone synthesis and secretion;>>Chemical carcinogenesis - reactive oxygen species
Gene Name :	PRKD1
Protein Name :	Serine/threonine-protein kinase D1
Human Gene Id :	5587
Human Swiss Prot No :	Q15139
Mouse Gene Id :	18760
Mouse Swiss Prot No :	Q62101
Rat Gene Id :	85421
Rat Swiss Prot No :	Q9WTQ1
Immunogen :	The antiserum was produced against synthesized peptide derived from human PKD1/PKC mu around the phosphorylation site of Ser205. AA range:171-220
Specificity :	Phospho-PKD1 (S205) Polyclonal Antibody detects endogenous levels of PKD1 protein only when phosphorylated at S205.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000 IF 1:50-200

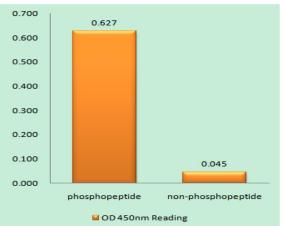


Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-
	chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
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Observed Band :	110kD
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Cell Pathway :	Regulation_Microtubule; Regulation of Actin Dynamics; Stem cell pathway;
	Insulin Receptor; B Cell Receptor; AMPK
Background :	PRKD1 is a serine/threonine kinase that regulates a variety of cellular functions,
	including membrane receptor signaling, transport at the Golgi, protection from oxidative stress at the mitochondria, gene transcription, and regulation of cell
	shape, motility, and adhesion (summary by Eiseler et al., 2009 [PubMed
	19329994]).[supplied by OMIM, Nov 2010],
Function :	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme
runction.	regulation:Activated by diacylglycerol and phorbol esters.,function:Calcium-
	independent, phospholipid-dependent, serine- and threonine-specific kinase
	involved in resistance to oxidative stress.,PTM:Phosphorylation of Ser-738 and/or
	Ser-742 in activated PKD is mediated by transphosphorylation (By similarity).
	Phosphorylation of Tyr-463 mediated by the Src/Abl pathway in response to
	oxidative stress activates the kinase.,similarity:Belongs to the protein kinase
	superfamily., similarity: Belongs to the protein kinase superfamily. CAMK Ser/Thr
	protein kinase family. PKD subfamily., similarity:Contains 1 PH
	domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 2 phorbol- ester/DAG-type zinc fingers.,subunit:Interacts (via N-terminus) with
	ADAP1/CENTA1. Interacts with Src.,
Subcellular	Cytoplasm . Cell membrane . Golgi apparatus, trans-Golgi network .
	Translocation to the cell membrane is required for kinase activation.
Location :	
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Expression :	Placenta, Testis,

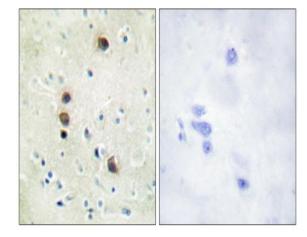
Products Images





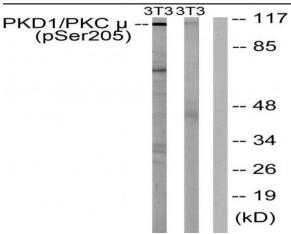


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PKD1/PKC mu (Phospho-Ser205) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using PKD1/PKC mu (Phospho-Ser205) Antibody. The picture on the right is blocked with the phospho peptide.





Western blot analysis of lysates from NIH/3T3 cells treated with Anisomycin 25ug/ml 30', using PKD1/PKC mu (Phospho-Ser205) Antibody. The lane on the right is blocked with the phospho peptide.