

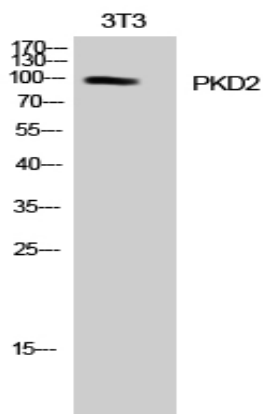
## PKD2 Polyclonal Antibody

<b>Catalog No :</b>	YT3773
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	PKD2
<b>Fields :</b>	>>Rap1 signaling pathway;>>Aldosterone synthesis and secretion;>>Chemical carcinogenesis - reactive oxygen species
<b>Gene Name :</b>	PRKD2
<b>Protein Name :</b>	Serine/threonine-protein kinase D2
<b>Human Gene Id :</b>	25865
<b>Human Swiss Prot No :</b>	Q9BZL6
<b>Mouse Gene Id :</b>	101540
<b>Mouse Swiss Prot No :</b>	Q8BZ03
<b>Rat Gene Id :</b>	292658
<b>Rat Swiss Prot No :</b>	Q5XIS9
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human PKD2. AA range:829-878
<b>Specificity :</b>	PKD2 Polyclonal Antibody detects endogenous levels of PKD2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200

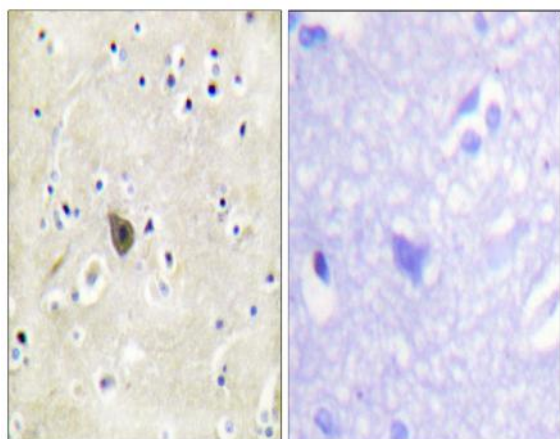
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	96kD
<b>Cell Pathway :</b>	Regulation_Microtubule; Regulation of Actin Dynamics; Stem cell pathway; Insulin Receptor; B Cell Receptor; AMPK
<b>Background :</b>	The protein encoded by this gene belongs to the protein kinase D (PKD) family of serine/threonine protein kinases. This kinase can be activated by phorbol esters as well as by gastrin via the cholecystokinin B receptor (CCKBR) in gastric cancer cells. It can bind to diacylglycerol (DAG) in the trans-Golgi network (TGN) and may regulate basolateral membrane protein exit from TGN. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008],
<b>Function :</b>	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,enzyme regulation:Activated by diacylglycerol and phorbol esters.,function:Calcium-independent, phospholipid-dependent, serine- and threonine-specific protein kinase.,PTM:Autophosphorylated. Phorbol esters stimulates autophosphorylation. Phosphorylation of Ser-876 correlates with the activation status of 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.,tissue specificity:Widely expressed.,
<b>Subcellular Location :</b>	Cytoplasm . Cell membrane . Nucleus . Golgi apparatus, trans-Golgi network . Translocation to the cell membrane is required for kinase activation. Accumulates in the nucleus upon CK1-mediated phosphorylation after activation of G-protein-coupled receptors. Nuclear accumulation is regulated by blocking nuclear export of active PRKD2 rather than by increasing import. .
<b>Expression :</b>	Widely expressed.
<b>Tag :</b>	orthogonal
<b>Sort :</b>	12783
<b>No4 :</b>	1
<b>Host :</b>	Rabbit

**Modifications :** Unmodified

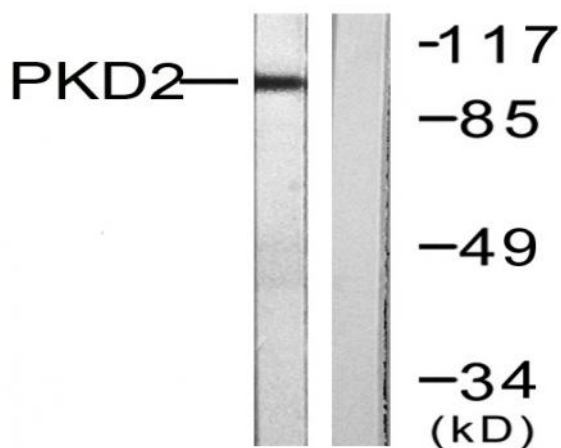
## Products Images



Western Blot analysis of NIH-3T3 cells using PKD2 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using PKD2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from NIH/3T3 cells, treated with PMA 250ng/ml 15', using PKD2 Antibody. The lane on the right is blocked with the synthesized peptide.