

**Product Name: PKD2 Rabbit Polyclonal Antibody****Catalog #: APRab16209**

For research use only.

**Summary**

<b>Description</b>	Rabbit polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC,ICC/IF,ELISA
<b>Reactivity</b>	Human,Mouse,Rat
<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>Storage</b>	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
<b>Shipping</b>	Ice bags
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

**Application**

<b>Dilution Ratio</b>	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:10000
<b>Molecular Weight</b>	96kDa

**Antigen Information**

<b>Gene Name</b>	PRKD2
<b>Alternative Names</b>	PRKD2; PKD2; HSPC187; Serine/threonine-protein kinase D2; nPKC-D2
<b>Gene ID</b>	25865.0
<b>SwissProt ID</b>	Q9BZL6
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PKD2. AA range:829-878

**Background**

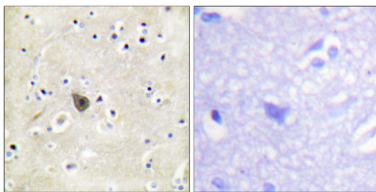
The protein encoded by this gene belongs to the protein kinase D (PKD) family of serine/threonine protein kinases. This kinase

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], 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,

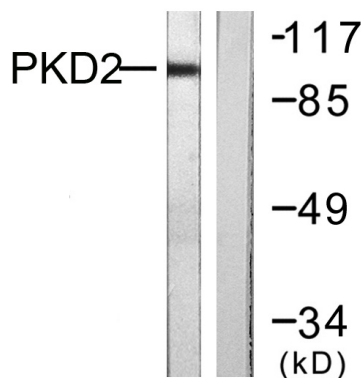
## Research Area

Regulation\_Microtubule; Regulation of Actin Dynamics; Stem cell pathway; Insulin Receptor; B Cell Receptor; AMPK

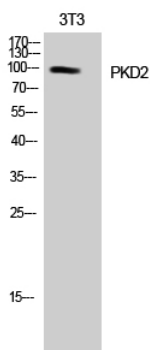
## Image Data



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.



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