
Product Name: PKD2 (phospho Ser876) Rabbit Polyclonal Antibody**Catalog #: APRab05276**

For research use only.

Summary

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

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000
Molecular Weight	96kDa

Antigen Information

Gene Name	PRKD2
Alternative Names	PRKD2; PKD2; HSPC187; Serine/threonine-protein kinase D2; nPKC-D2
Gene ID	25865.0
SwissProt ID	Q9BZL6
Immunogen	The antiserum was produced against synthesized peptide derived from human PKD2 around the phosphorylation site of Ser876. AA range:829-878

Background

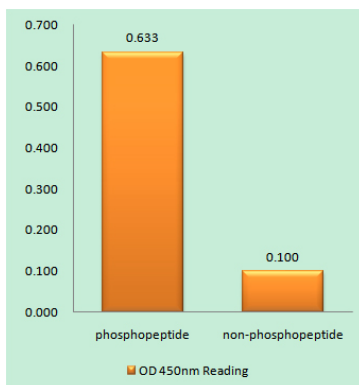
The protein encoded by this gene belongs to the protein kinase D (PKD) family of serine/threonine protein kinases. This kinase

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.,

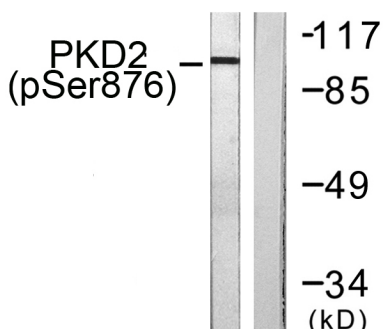
Research Area

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

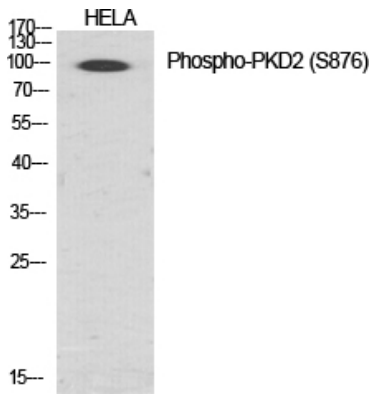
Image Data



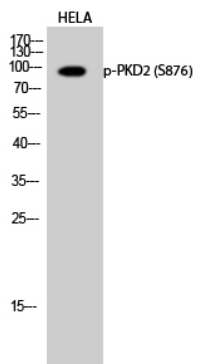
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right) , using PKD2 (Phospho-Ser876) Antibody



Western blot analysis of lysates from NIH/3T3 cells treated with PMA 250ng/ml 15', using PKD2 (Phospho-Ser876) Antibody. The lane on the right is blocked with the phospho peptide.



Western Blot analysis of various cells using Phospho-PKD2 (S876) Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of HELA cells using Phospho-PKD2 (S876) Polyclonal Antibody diluted at 1: 1000