



PKD2 (phospho Ser876) Polyclonal Antibody

Catalog No	YP-Ab-14375
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PRKD2
Immunogen	The antiserum was produced against synthesized peptide derived from human PKD2 around the phosphorylation site of Ser876. AA range:829-878
Specificity	Phospho-PKD2 (S876) Polyclonal Antibody detects endogenous levels of PKD2 protein only when phosphorylated at S876.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/40000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PKD2;Polycystwin;Polycystin-2;PKD4;PC2;PRKD2;Serine/threonine-protein kinase D2;HSPC187;nPKC-D2
Observed Band	96kD
Calculated Molecular Weight	96kD
Cell Pathway	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. .
Tissue Specificity	Widely expressed.
Function	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.,

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],

matters needing attention

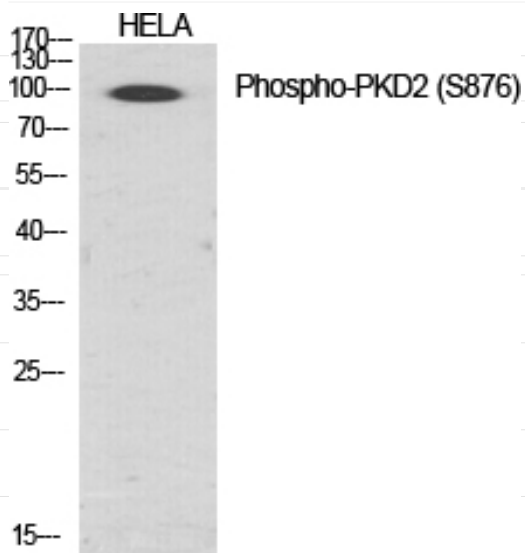
Avoid repeated freezing and thawing!

Usage suggestions

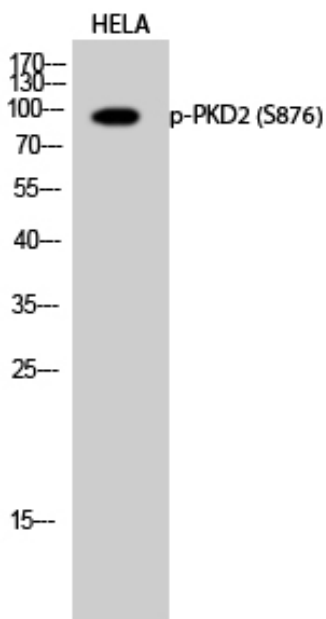
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



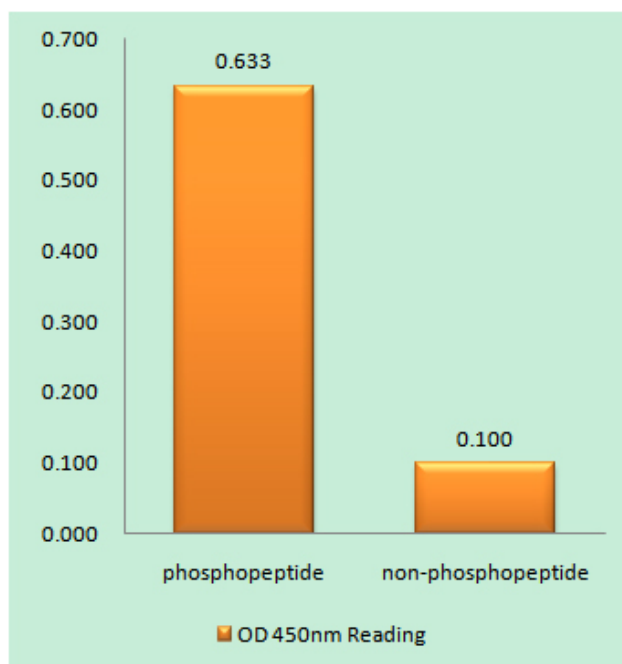
Products Images



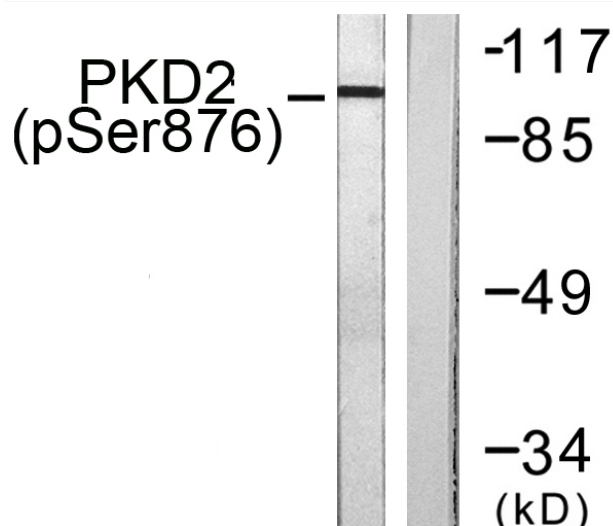
Western Blot analysis of various cells using
Phospho-PKD2 (S876) Polyclonal Antibody diluted at
1:1000



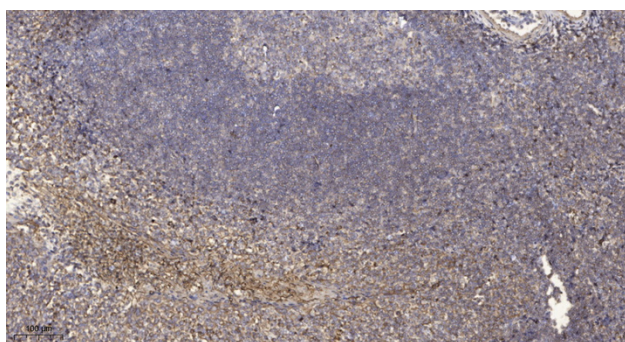
Western Blot analysis of HELA cells using
Phospho-PKD2 (S876) Polyclonal Antibody diluted at
1:1000



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.



Immunohistochemical analysis of paraffin-embedded
human tonsil. 1, Antibody was diluted at 1:200(4°
overnight). 2, Tris-EDTA, pH9.0 was used for antigen
retrieval. 3, Secondary antibody was diluted at
1:200(room temperature, 30min).