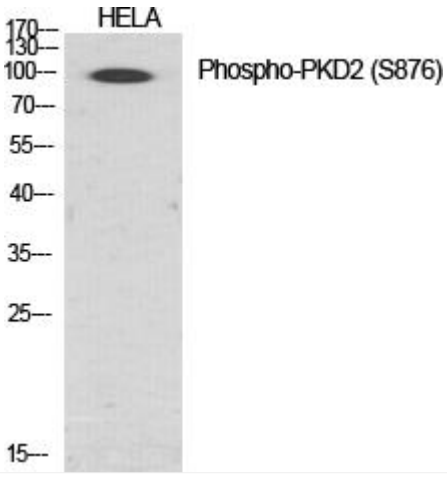
PKD2 (phospho Ser876) Monoclonal Antibody

Catalog No	BYmab-14375
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PRKD2
Protein Name	Serine/threonine-protein kinase D2
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) Monoclonal 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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PRKD2; PKD2; HSPC187; Serine/threonine-protein kinase D2; nPKC-D2
Observed Band	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 PKD2 (phospho Ser876) Monoclonal Antibody