



KPCD3 Polyclonal Antibody

Catalog No	YP-Ab-06742
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	PRKD3 EPK2 PRKCN
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	KPCD3 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, 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 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EPK2;PKC NU;PKD3;PRKCN;PRKD3;Protein kinase C nu type;protein kinase D3;Protein kinase EPK2;KPCD3;PRKD3 EPK2 PRKCN;Serine/threonine-protein kinase D3 (EC 2.7.11.13) (Protein kinase C nu type) (Protein kinase EPK2) (nPKC-nu)
Observed Band	68 kDa, 100 kDa
Calculated Molecular Weight	611aa,68 kDa; 100 kDa; 890aa
Cell Pathway	Cytoplasm . Membrane . Translocation to the cell membrane is required for kinase activation.
Tissue Specificity	Ubiquitous.
Function	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Calcium-independent, phospholipid-dependent, serine- and threonine-specific kinase. Upon diacylglycerol-activation, phosphorylates a range of cellular proteins. Also serves as the receptor for phorbol esters, a class of tumor promoters., 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:Ubiquitous.,

Background

This gene belongs to the multigene protein kinase D family of serine/threonine kinases, which bind diacylglycerol and phorbol esters. Members of this family are characterized by an N-terminal regulatory domain comprised of a tandem repeat of cysteine-rich zinc-finger motifs and a pleckstrin domain. The C-terminal region contains the catalytic domain and is distantly related to calcium-regulated kinases. Catalytic activity of this enzyme promotes its nuclear localization. This protein has been implicated in a variety of functions including negative regulation of human airway epithelial barrier formation, growth regulation of breast and prostate cancer cells, and vesicle trafficking. [provided by RefSeq, Jan 2015],

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