

Immunotag™ PKD2 (phospho Ser876) Polyclonal Antibody

Antibody Specification	
Catalog No.	ITP0341
Product Description	Immunotag™ PKD2 (phospho Ser876) Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PKD2 (Ser876)
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized phospho-peptide around the phosphorylation site of human PKD2 (phospho Ser876)
Specificity	Phospho-PKD2 (S876) Polyclonal Antibody detects endogenous levels of PKD2 protein only when phosphorylated at S876.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	PRKD2
Accession No.	Q9BZL6 Q8BZ03 Q5XIS9
Alternate Names	PRKD2; PKD2; HSPC187; Serine/threonine-protein kinase D2; nPKC-D2

Antibody Specification

Description	protein kinase D2(PRKD2) Homo sapiens 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],
Cell Pathway/ Category	Regulation_Microtubule, Regulation of Actin Dynamics, Stem cell pathway, Insulin Receptor, B Cell Receptor, AMPK
Protein Expression	Epithelium,Mammary gland,Pancreas,Thyroid gland,Umbilical cord blood,Uterus,
Subcellular Localization	intracellular,nucleus,nucleoplasm,cytoplasm,Golgi apparatus,plasma membrane,
Protein 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.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.