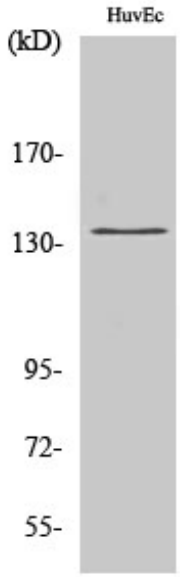
DGK-δ Polyclonal Antibody

Catalog No	YP-Ab-14723
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	DGKD
Protein Name	Diacylglycerol kinase delta
Immunogen	The antiserum was produced against synthesized peptide derived from human DGKD. AA range:41-90
Specificity	DGK-δ Polyclonal Antibody detects endogenous levels of DGK-δ protein.
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	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DGKD; KIAA0145; Diacylglycerol kinase delta; DAG kinase delta; 130 kDa diacylglycerol kinase; Diglyceride kinase delta; DGK-delta
Observed Band	135kD
Cell Pathway	Membrane, clathrin-coated pit . Cytoplasm .; [Isoform 1]: Cell membrane ; Peripheral membrane protein . Cytoplasm . Isoform 1 translocation from cytoplasm to the plasma membrane is induced by phorbol esters (PubMed:12200442). Phorbol esters induce the conversion into the monomeric form which can translocate to the plasma membrane (PubMed:12084710). .
Tissue Specificity	[Isoform 2]: Widely expressed. ; [Isoform 1]: Only detected in ovary, and to a lesser extent in spleen.
Function	catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,enzyme regulation:Partially inhibited by phosphatidylserine.,function:May function as signaling molecule. Isoform 2 may be involved in cell growth and tumorigenesis.,PTM:Isoform 1 H domain is phosphorylated.,similarity:Belongs to the eukaryotic diacylglycerol kinase family.,similarity:Contains 1 DAGKc domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 SAM (sterile alpha motif) domain.,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers.,subunit:The two isoforms are able to form homo- and hetero-oligomer structures (at least tetramers).,tissue specificity:Isoform 2 is ubiquitously expressed also in tumor

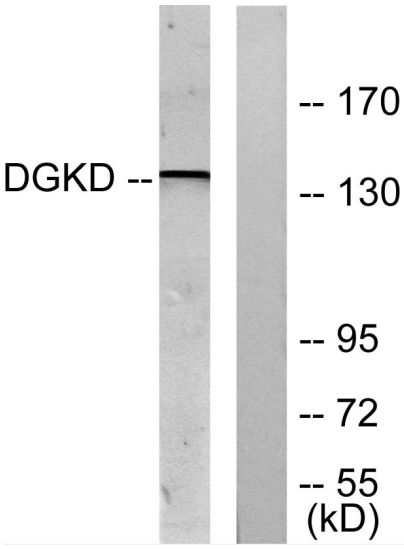
tissues. Isoform 1 is expressed in ovary, spleen and some tumor-derived cells.,

Background	This gene encodes a cytoplasmic enzyme that phosphorylates diacylglycerol to produce phosphatidic acid. Diacylglycerol and phosphatidic acid are two lipids that act as second messengers in signaling cascades. Their cellular concentrations are regulated by the encoded protein, and so it is thought to play an important role in cellular signal transduction. Alternative splicing results in two 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 DGK-δ Polyclonal Antibody



Western blot analysis of lysates from HUVEC cells, using DGKD Antibody. The lane on the right is blocked with the synthesized peptide.