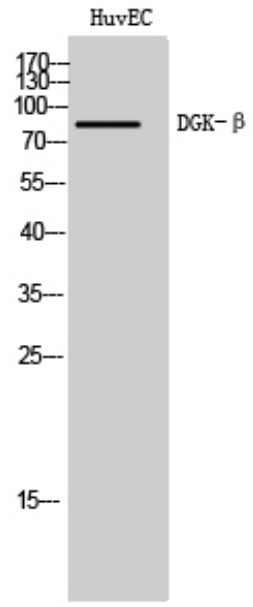
DGK-β Polyclonal Antibody

Catalog No	YP-Ab-14722
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA
Gene Name	DGKB
Protein Name	Diacylglycerol kinase beta
Immunogen	The antiserum was produced against synthesized peptide derived from human DGKB. AA range:657-706
Specificity	DGK-β Polyclonal Antibody detects endogenous levels of DGK-β 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. ELISA: 1/40000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DGKB; DAGK2; KIAA0718; Diacylglycerol kinase beta; DAG kinase beta; 90 kDa diacylglycerol kinase; Diglyceride kinase beta; DGK-beta
Observed Band	90kD
Cell Pathway	Cell junction, synapse, postsynaptic cell membrane ; Peripheral membrane protein . Cell membrane ; Peripheral membrane protein . Cytoplasm . Translocation to the plasma membrane is induced by phorbol esters. .; [Isoform 2]: Cytoplasm .
Tissue Specificity	[Isoform 1]: Specifically expressed in brain but also detected in uterus (PubMed:11719522). In adult brain, expressed in the amygdala, caudate nucleus, and hippocampus (PubMed:11719522). ; [Isoform 2]: More ubiquitously expressed but at lower level compared to isoform 1.
Function	catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,enzyme regulation:Stimulated by phosphatidylserine.,function:Exhibits high phosphorylation activity for long-chain diacylglycerols.,similarity:Belongs to the eukaryotic diacylglycerol kinase family.,similarity:Contains 1 DAGKc domain.,similarity:Contains 2 EF-hand domains.,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers.,
Background	Diacylglycerol kinases (DGKs) are regulators of the intracellular concentration of the second messenger diacylglycerol (DAG) and thus play a key role in cellular processes. Nine mammalian isotypes have been identified, which are encoded by

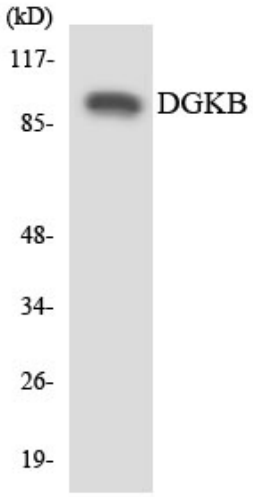
separate genes. Mammalian DGK isozymes contain a conserved catalytic (kinase) domain and a cysteine-rich domain (CRD). The protein encoded by this gene is a diacylglycerol kinase, beta isotype. Two alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008],

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 HuvEC cells using DGK-β Polyclonal Antibody



Western blot analysis of the lysates from HUVECcells using DGKB antibody.