



# DGK- $\beta$ Polyclonal Antibody

<b>Catalog No</b>	BYab-14722
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	DGKB
<b>Protein Name</b>	Diacylglycerol kinase beta
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DGKB. AA range:657-706
<b>Specificity</b>	DGK- $\beta$ Polyclonal Antibody detects endogenous levels of DGK- $\beta$ protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	$\geq 90\%$
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	DGKB; DAGK2; KIAA0718; Diacylglycerol kinase beta; DAG kinase beta; 90 kDa diacylglycerol kinase; Diglyceride kinase beta; DGK-beta
<b>Observed Band</b>	90kD
<b>Cell Pathway</b>	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 .
<b>Tissue Specificity</b>	[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.
<b>Function</b>	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.,

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**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],

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**matters needing attention**

Avoid repeated freezing and thawing!

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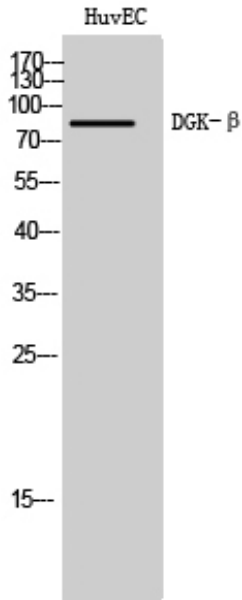
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

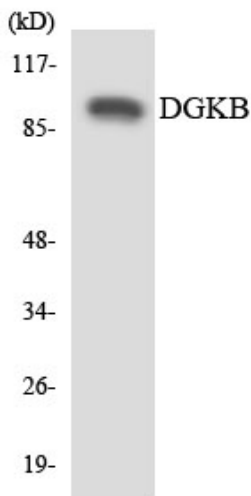
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## Products Images



Western Blot analysis of HuvEC cells using DGK-β Polyclonal Antibody



Western blot analysis of the lysates from HUVEC cells using DGKB antibody.