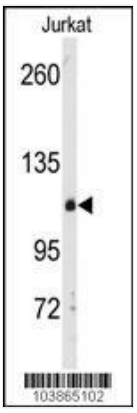
DGKD Antibody – Rabbit Polyclonal

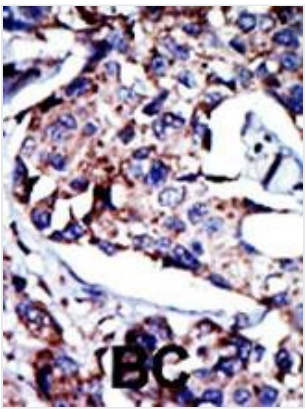
PRODUCT OVERVIEW

Product Name	DGKD, Polyclonal Antibody
Full Product Name	DGKD, CT (Diacylglycerol Kinase delta, Diglyceride Kinase delta, DGK-delta, DAG Kinase delta, 130kD Diacylglycerol Kinase, KIAA0145) (PE)
Product Gene Name	anti-DGKD antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human DGKD. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	134,525 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (234263153..234380743). Location: 2q37.1
OMIM	601826
3D Structure	ModBase 3D Structure for Q16760
Immunogen	Synthetic peptide selected from the C-terminal region of human DGKD (KLH).
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-DGKD antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-DGKD antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-DGKD antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-DGKD antibody	MBS6472415 is an antibody targeting DGKD. Also known as DGKD, CT (Diacylglycerol Kinase delta, Diglyceride Kinase delta, DGK-delta, DAG Kinase delta, 130kD Diacylglycerol Kinase, KIAA0145) (PE). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-DGKD antibody	1. Sakane, F., et al., J. Biol. Chem. 271(14):8394-8401 (1996). 2. Nagase, T., et al., DNA Res. 2(4):167-174 (1995).

Other Notes	Small volumes of anti-DGKD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-DGKD antibody
Western blot analysis of anti-anti-DGK delta Pab in Jurkat cell line lysates (35ug/lane). DGK delta (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-DGKD antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DGKD. It may not necessarily be applicable to this product.

NCBI GI #	25777596
NCBI GeneID	8527
NCBI Accession #	NP_003639.2
UniProt Primary Accession #	Q16760
UniProt Secondary Accession #	Q14158; Q6PK55; Q8NG53
UniProt Related Accession #	Q16760
GenBank Nucleotide #	NM_003648.2
NCBI Official Full Name	diacylglycerol kinase delta isoform 1
NCBI Official Synonym Full Names	diacylglycerol kinase, delta 130kDa
NCBI Official Symbol	DGKD
NCBI Official Synonym Symbols	dgkd-2; DGKdelta
UniProt Protein Name	Diacylglycerol kinase delta
UniProt Synonym Protein Names	130 kDa diacylglycerol kinase; Diglyceride kinase delta
Protein Family	Diacylglycerol kinase
UniProt Gene Name	DGKD
UniProt Synonym Gene Names	KIAA0145; DAG kinase delta; DGK-delta
UniProt Entry Name	DGKD_HUMAN
NCBI Protein Information	diacylglycerol kinase delta; DGK-delta; DAG kinase delta; diglyceride kinase delta

NCBI Summary for DGKD	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]
UniProt Comments for DGKD	DGKD: May function as signaling molecule. Belongs to the eukaryotic diacylglycerol kinase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - glycerophospholipid; Lipid Metabolism - glycerolipid; Kinase, lipid; EC 2.7.1.107; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: cytoplasmic membrane-bound vesicle; cytoplasm; plasma membrane Molecular Function: diacylglycerol binding; protein binding; protein homodimerization activity; protein heterodimerization activity; metal ion binding; diacylglycerol kinase activity; ATP binding; NAD+ kinase activity Biological Process: epidermal growth factor receptor signaling pathway; second-messenger-mediated signaling; platelet activation; multicellular organismal development; endocytosis; signal transduction; response to organic substance; protein transport; protein kinase C activation; diacylglycerol metabolic process; blood coagulation; cell growth; phosphorylation; protein homooligomerization
Research Articles on DGKD	**1.** Diacylglycerol signaling limits Akt activation through diacylglycerol kinase delta and PHLPP2.
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