DGKD ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	DGKD, ELISA Kit
Full Product Name	DGKD Colorimetric Cell-Based ELISA Kit
Product Gene Name	DGKD elisa kit
Product Synonym Names	Diglyceride kinase delta; DGK-delta; DAG kinase delta; 130 kDa diacylglycerol kinase
Species Reactivity	Human
Assay Type	Non-Phospho Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Sensitivity	>=5000 cells/well
Form/Format	One 96-Well Plate
Preparation and Storage	Store at 4 degree C.
Molecular Weight	134 kDa
OMIM	AB078966 mRNA
3D Structure	ModBase 3D Structure for Q16760
Detection Method	Colorimetric 450 nm
Product Categories/Family for DGKD elisa kit	Cell Based ELISA Kit
Related Product Information for DGKD elisa kit	MBS9500872 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the DGKD, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DGKD. The ELISA analytical biochemical technique of the MBS9500872 kit is based on DGKD antibody-DGKD antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DGKD antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DGKD. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of DGKD elisa kit 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.

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
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; DGK-delta
Protein Family	Diacylglycerol kinase
UniProt Gene Name	DGKD
UniProt Synonym Gene Names	KIAA0145; DAG kinase delta; DGK-delta
NCBI Protein Information	diacylglycerol 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: EC 2.7.1.107; Kinase, lipid; Lipid Metabolism - glycerolipid; Lipid Metabolism - glycerophospholipid; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2q37.1 Cellular Component: cytoplasm; cytosol; nucleus; plasma membrane Molecular Function: ATP binding; diacylglycerol binding; diacylglycerol kinase activity; metal ion binding; NAD+ kinase activity; protein binding; protein heterodimerization activity; protein homodimerization activity Biological Process: cell growth; diacylglycerol metabolic process; endocytosis; epidermal growth factor receptor signaling pathway; lipid phosphorylation; multicellular organism development; platelet activation; protein homooligomerization; protein kinase C-activating G-protein coupled receptor signaling pathway; protein transport; response to organic substance; second-messenger-mediated signaling; signal transduction
Research Articles on DGKD	**1.** purification and characterization of DGKepsilon's enzymatic and conformational properties
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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