DGKI Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DGKI, Polyclonal Antibody
Full Product Name	DGKI, CT (Diacylglycerol Kinase iota, DAG Kinase iota, Diglyceride Kinase iota, DGK-iota) (MaxLight 750)
Product Gene Name	anti-DGKI 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 MaxLight750.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human DGKI. 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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	116,997 Da
Chromosome Location	Chromosome: 7; NC_000007.13 (137074385..137531609, complement). Location: 7q32.3-q33
OMIM	604072
3D Structure	ModBase 3D Structure for O75912
Immunogen	Synthetic peptide selected from the C-terminal region of human DGKI (KLH).
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-DGKI antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-DGKI antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-DGKI 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-DGKI antibody	MBS6472425 is an antibody targeting DGKI. Also known as DGKI, CT (Diacylglycerol Kinase iota, DAG Kinase iota, Diglyceride Kinase iota, DGK-iota) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-DGKI antibody	1. Ding, L., et al., J. Biol. Chem. 273(49):32746-32752 (1998). 2. Bowne, S.J., et al., Mol. Vis. 6, 6-9 (2000).
Other Notes	Small volumes of anti-DGKI 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.

ADDITIONAL DETAILS

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

NCBI GI #	4758156
NCBI GeneID	9162
NCBI Accession #	NP_004708.1
UniProt Primary Accession #	O75912
UniProt Secondary Accession #	Q9NZ49; A4D1Q9
UniProt Related Accession #	O75912
GenBank Nucleotide #	NM_004717.2
NCBI Official Full Name	diacylglycerol kinase iota
NCBI Official Synonym Full Names	diacylglycerol kinase, iota
NCBI Official Symbol	DGKI
NCBI Official Synonym Symbols	DGK-IOTA
UniProt Protein Name	Diacylglycerol kinase iota
UniProt Synonym Protein Names	Diglyceride kinase iota
Protein Family	Diacylglycerol kinase
UniProt Gene Name	DGKI
UniProt Synonym Gene Names	DAG kinase iota; DGK-iota
UniProt Entry Name	DGKI_HUMAN
NCBI Protein Information	diacylglycerol kinase iota; DAG kinase iota; diglyceride kinase iota
NCBI Summary for DGKI	This gene is a member of the type IV diacylglycerol kinase subfamily. Diacylglycerol kinases regulate the intracellular concentration of diacylglycerol through its phosphorylation, producing phosphatidic acid. The specific role of the enzyme encoded by this gene is undetermined, however, it may play a crucial role in the production of phosphatidic acid in the retina or in recessive forms of retinal degeneration. [provided by RefSeq, Jul 2008]
UniProt Comments for DGKI	DGKI: a member of the type IV diacylglycerol kinase subfamily. Diacylglycerol kinases regulate the intracellular concentration of diacylglycerol through its phosphorylation, producing phosphatidic acid. The specific role of the enzyme encoded by undetermined, however, it may play a crucial role in the production of phosphatidic acid in the retina or in recessive forms of retinal degeneration. [provided by RefSeq, Jul 2008] Protein type: Kinase, lipid; Motility/polarity/chemotaxis; EC 2.7.1.107; Lipid Metabolism - glycerophospholipid; Lipid Metabolism - glycerolipid Chromosomal Location of Human Ortholog: 7q32.3-q33 Cellular Component: nucleoplasm; perinuclear region of cytoplasm; cytoplasm; plasma membrane; dendritic spine; synapse; nucleus Molecular Function: protein binding; Ras GTPase binding; metal ion binding; diacylglycerol kinase activity; ATP binding; GTPase inhibitor activity; NAD+ kinase activity Biological Process: platelet activation; protein kinase C activation; negative regulation of catalytic activity; positive regulation of Ras protein signal transduction; blood coagulation; phosphorylation
Research Articles on DGKI	**1.** Here, we report results from a fine-mapping approach involving linkage and association analysis in Finnish and German dyslexic cohorts. We restrict a candidate region to 0.3 Mb on chromosome 7q33.

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