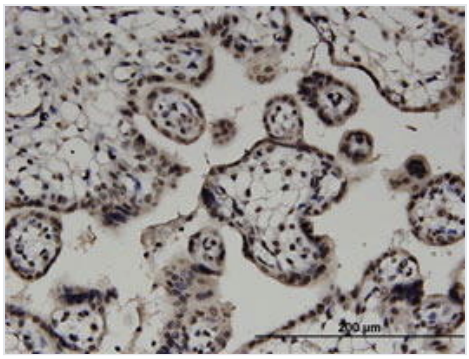
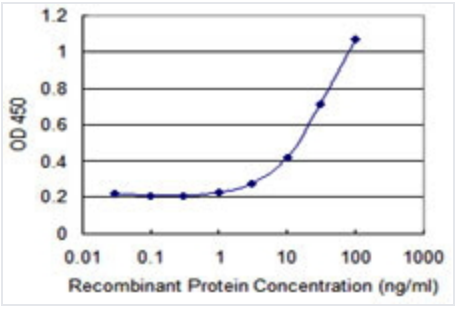
DGKA Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

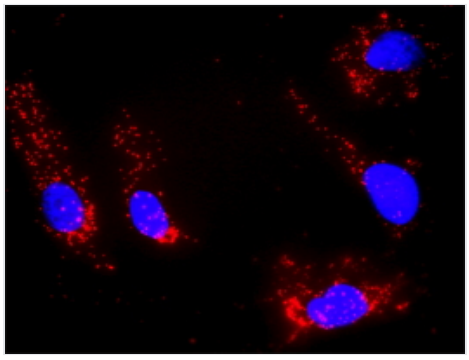
Product Name	DGKA, Monoclonal Antibody
Full Product Name	DGKA (Diacylglycerol Kinase alpha, Diglyceride Kinase alpha, DGK-alpha, DAG Kinase alpha, 80kD Diacylglycerol Kinase, DAGK, DAGK1) (FITC)
Product Gene Name	anti-DGKA antibody
Clonality	Monoclonal
Isotype	IgG2b,k
Clone Number	2B7
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DGKA.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor
Molecular Weight	28,094 Da
Immunogen	Full length recombinant corresponding to aa1-735 from human DGKA (AAH31870) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAKERGLISPSDFAQLQKYMEYSTKKVSDVLKLFEDGEMAKYVQGDAIGYEGFQQFLKIYLEVDNVPRHLSLALFQSFETGHCLNETNVTKDVVCLNDVS
Conjugate	FITC
Product Categories/Family for anti-DGKA antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-DGKA antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin
Application Notes for anti-DGKA antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-DGKA antibody	MBS6146830 is an antibody targeting DGKA. Also known as DGKA (Diacylglycerol Kinase alpha, Diglyceride Kinase alpha, DGK-alpha, DAG Kinase a
Other Notes	Small volumes of anti-DGKA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess



Testing Data of anti-DGKA antibody
Immunoperoxidase of monoclonal antibody to DGKA on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3ug/ml].



Testing Data of anti-DGKA antibody
Detection limit for recombinant GST tagged DGKA is 1ng/ml as a capture antibody.



Testing Data of anti-DGKA antibody
Proximity Ligation Analysis (PLA) of protein-protein interactions between IL21 and DGKA. HeLa cells were stained with IL21 rabbit purified polyclonal 1:1200 and DGKA mouse monoclonal antibody 1:50. Signals were detected by 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.

ADDITIONAL DETAILS

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

NCBI GI #	34192225
NCBI GeneID	1606
NCBI Accession #	BC031870
NCBI Related Accession #	AAH31870
UniProt Secondary Accession #	O75481; O75482; O75483; O95217; Q3ZE25; Q8IZ56; Q8N5Q2
UniProt Related Accession #	P23743
NCBI Official Full Name	Homo sapiens diacylglycerol kinase, alpha 80kDa, mRNA
NCBI Official Synonym Full Names	diacylglycerol kinase alpha
NCBI Official Symbol	DGKA
NCBI Official Synonym Symbols	DAGK; DAGK1; DGK-alpha
Protein Family	Diacylglycerol kinase
NCBI Protein Information	diacylglycerol kinase alpha

NCBI Summary for DGKA	The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It acts as a modulator that competes with protein kinase C for the second messenger diacylglycerol in intracellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositols and phosphorylating diacylglycerol to phosphatidic acid. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]
Research Articles on DGKA	**1.** Decreased DNA methylation at this enhancer enables recruitment of the profibrotic transcription factor early growth response 1 (EGR1) and facilitates radiation-induced DGKA transcription in cells from patients later developing fibrosis.
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