

## Product datasheet for **CF504024**

### DGKA Mouse Monoclonal Antibody [Clone ID: OTI3G7]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3G7
Applications:	FC, WB
Recommended Dilution:	WB 1:500~2000, FLOW 1:100
Reactivity:	Human, Dog, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human DGKA(NP_001336) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	82.5 kDa
Gene Name:	diacylglycerol kinase alpha
Database Link:	<a href="#">NP_001336</a> <a href="#">Entrez Gene 140866 Rat</a> <a href="#">Entrez Gene 100855691 Dog</a> <a href="#">Entrez Gene 1606 Human</a> <a href="#">P23743</a>



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**Background:**

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]

**Synonyms:**

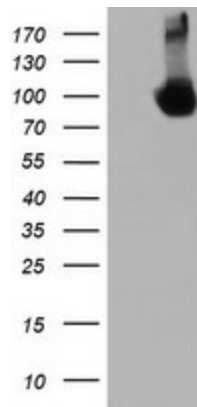
DAGK; DAGK1; DGK-alpha

**Protein Families:**

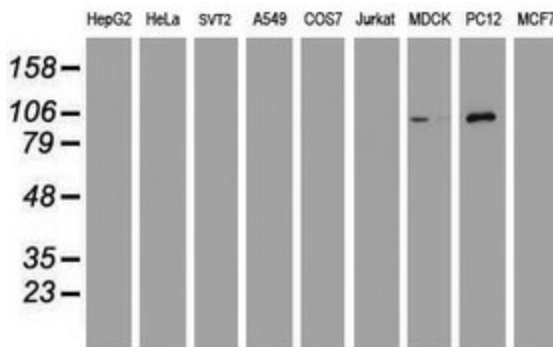
Druggable Genome

**Protein Pathways:**

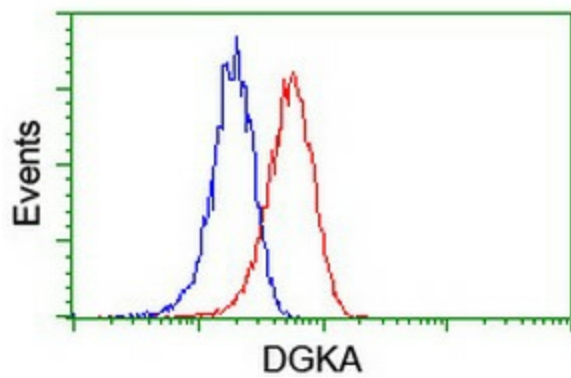
Glycerolipid metabolism, Glycerophospholipid metabolism, Metabolic pathways, Phosphatidylinositol signaling system

**Product images:**


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DGKA (Cat# [RC222395], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DGKA (Cat# [TA504024]). Positive lysates [LY400535] (100ug) and [LC400535] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-DGKA monoclonal antibody.



Flow cytometric Analysis of Jurkat cells, using anti-DGKA antibody ([TA504024]), (Red), compared to a nonspecific negative control antibody, (Blue).