

AP06741PU-N**Polyclonal Antibody to DAG kinase delta - Aff - Purified****Alternate names:**

DGK-delta, DGKD, Diacylglycerol kinase delta, Diglyceride kinase delta, KIAA0145

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

Background:

Diacylglycerol kinases (DGKs) phosphorylate diacylglycerol (DAG) to produce phosphatidic acid. DAG and phosphatidic acid are lipids that act as second messengers in signaling cascades. DGK- α influences cell activation and secretion of lethal exosomes, which in turn control cell death. DGK- β is abundant in restricted brain regions such as the caudate putamen and olfactory tubercle. DGK- γ encodes full-length and truncated transcripts that are present in a range of human tissues, with greatest expression observed in retina. DGK- δ is most abundant in skeletal muscle. DGK- ϵ shows specificity for arachidonylcontaining diacylglycerol and is expressed predominantly in testis. DGK- θ is most abundant in the cerebellum and hippocampus. DGK- ι is present in brain and retina as a predominant transcript of more than 12 kb, including a long 3-prime untranslated region, with additional low abundance transcripts of 9.5 and 7.5 kb. DGK- ν is closely related to DGK- δ . DGK- ζ is most abundant in brain and muscle. DGKs have structural motifs that play regulatory roles, and these motifs form the basis for dividing the DGKs into five subtypes.

Uniprot ID:[Q16760](#)**NCBI:**[NP_003639](#)**GenID:**[8527](#)**Host:**

Rabbit

Immunogen:Synthetic peptide, corresponding to amino acids 34-88 of Human DGK- δ .**Format:****State:** Liquid purified Ig fraction**Purification:** Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).**Buffer System:** Phosphate buffered saline (PBS), pH 7.2.**Preservatives:** 0.05% sodium azide**Applications:****Western blot:** 1/500-1/1000.**Immunohistochemistry on paraffin sections:** 1/50-1/200.**Immunofluorescence:** 1/50-1/200.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

~ 135 kDa

Specificity:This antibody detects endogenous levels of DGK- δ protein.
(region surrounding Ser66)**Species Reactivity:****Tested:** Human.**Expected from sequence similarity:** Mouse and Rat.

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Pictures: **Western blot** analysis of DGK- δ antibody (Cat.-No.: AP06741PU-N) in extracts from HUVEC cells

