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DGKH Rabbit pAb

Catalog # AP99540

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q86XP1
Other Accession	Q86XP1
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	134866
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DGKH
Epitope Specificity	741-840/1220
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a member of the diacylglycerol kinase (DGK) enzyme family of proteins, specifically the type II DGK subfamily. Members of this family are involved in regulating the intracellular concentrations of diacylglycerol and phosphatidic acid. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Mar 2011]

Additional Information

Gene ID	160851
Other Names	DGKeta; 5930402B05Rik; D130015C16; DGK; DGKH_HUMAN; DGKH; DAG kinase eta; Diglyceride kinase eta (DGK-eta); 2.7.1.107; A0JP53_MOUSE; DAG kinase; diacylglycerol kinase eta
Dilution	IHC-P=1:100-500,IHC-F=1:400-800,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DGKH (HGNC:2854)
Function	Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic

	acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:12810723, PubMed:23949095). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (Probable) (PubMed:12810723, PubMed:23949095). Plays a key role in promoting cell growth (PubMed:19710016). Activates the Ras/B-Raf/C-Raf/MEK/ERK signaling pathway induced by EGF (PubMed:19710016). Regulates the recruitment of RAF1 and BRAF from cytoplasm to membranes and their heterodimerization (PubMed:19710016).
Cellular Location	Cytoplasm. Cell membrane Note=Translocated from the cytoplasm to endosomes in response to stress stimuli (PubMed:12810723). Isoform 2 is rapidly relocated back to the cytoplasm upon removal of stress stimuli, whereas isoform 1 exhibits sustained endosomal association (PubMed:12810723). Translocates from the cytoplasm to the cell membrane in the presence of active GTP-bound form of HRAS (PubMed:19710016)
Tissue Location	[Isoform 1]: Expressed only in testis, kidney and colon.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.