Best Tools for immunology Research

DGK-θ Polyclonal Antibody

Catalog No :	YT1337
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IHC;IF;ELISA
Target :	DGK-θ
Fields :	>>Glycerolipid metabolism;>>Glycerophospholipid metabolism;>>Metabolic pathways;>>Phosphatidylinositol signaling system;>>Phospholipase D signaling pathway;>>Choline metabolism in cancer
Gene Name :	DGKQ
Protein Name :	Diacylglycerol kinase theta
Human Gene Id :	1609
Human Swiss Prot No :	P52824
Mouse Swiss Prot No :	Q6P5E8
Immunogen :	The antiserum was produced against synthesized peptide derived from human DGKQ. AA range:691-740
Specificity :	DGK-θ Polyclonal Antibody detects endogenous levels of DGK-θ protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 101kD

Cell Pathway : Glycerolipid metabolism;Glycerophospholipid metabolism;Phosphatidylinositol signaling system;

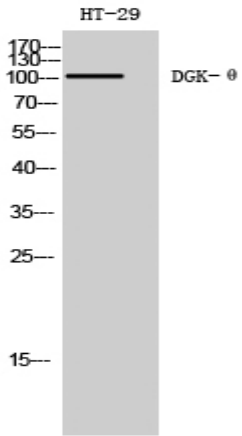
Background : The protein encoded by this gene contains three cysteine-rich domains, a proline-rich region, and a pleckstrin homology domain with an overlapping Ras-associating domain. It is localized in the speckle domains of the nucleus, and mediates the regeneration of phosphatidylinositol (PI) from diacylglycerol in the PI-cycle during cell signal transduction. [provided by RefSeq, Jul 2008],

Function : catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,similarity:Belongs to the eukaryotic diacylglycerol kinase family.,similarity:Contains 1 DAGKc domain.,similarity:Contains 1 Ras-associating domain.,similarity:Contains 3 phorbol-ester/DAG-type zinc fingers.,

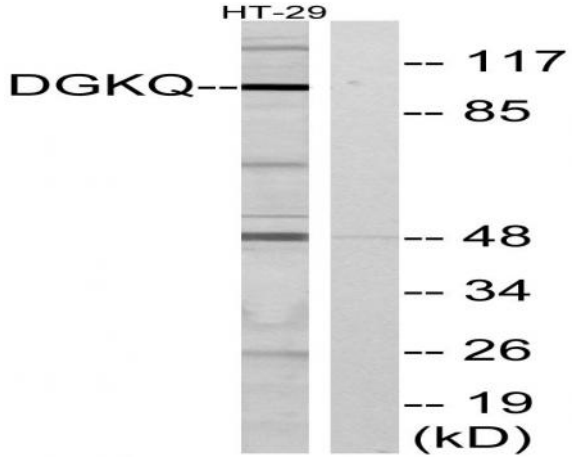
Subcellular Location : Cytoplasm . Cytoplasm, cytosol . Cell membrane . Cell junction, synapse . Cytoplasm, cytoskeleton . Nucleus . Nucleus speckle . Nucleus matrix . Translocates to the plasma membrane in response to steroid hormone receptor stimulation (PubMed:15632189). Translocation to the plasma membrane is dependent on G-protein coupled receptor stimulation and subsequent activation of PRKCE and probably PRKCH (PubMed:15632189). Translocates to the nucleus in response to thrombin stimulation (Probable). Association with the nuclear matrix is regulated by nerve growth factor (By similarity). .

Expression : Brain,

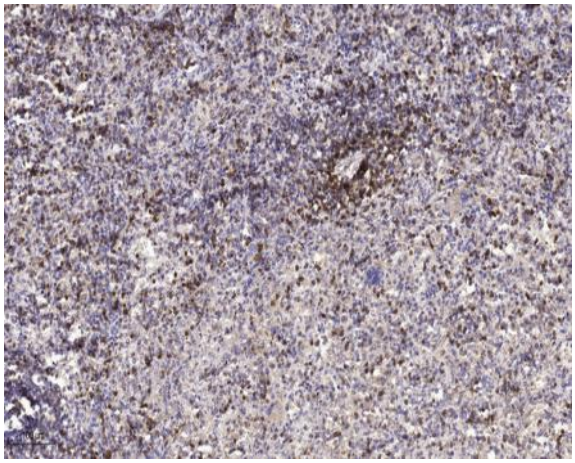
Products Images



Western Blot analysis of HT-29 cells using DGK-θ Polyclonal Antibody



Western blot analysis of lysates from HT-29 cells, using DGKQ Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human spleen tissue. 1,primary Antibody was diluted at 1:200(4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200