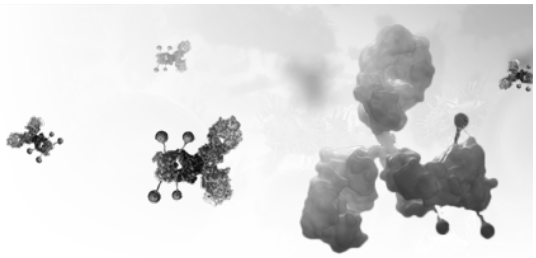

Mouse anti-Human DGKθ monoclonal antibody, clone 35 (CABT-B9192)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Human DGKθ aa. 677-883
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat, Human, Mouse, Rabbit
Clone	35
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF; IHC
Format	Liquid
Concentration	250 μg/ml
Size	50 μg, 150 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	The protein kinase C pathway is a major signal transduction system that is activated upon

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	stimulation of transmembrane receptors by hormones, neurotransmitters, and growth factors. Key mediators in this pathway are increased intracellular free Ca2+ levels and formation of diacylglycerol (DAG). DGKθ (diacylglycerol kinase θ) restricts PKC activation through the phosphorylation of DAG molecules that contain an unsaturated fatty acid at the sn-2 position to produce phosphatidic acid (PA). DGKθ contains several regions that are found in signaling molecules where they function in lipid-protein and protein-protein interactions. A C-terminal catalytic domain, three CRDs (cysteine rich domains), a PH domain, and an N-terminal proline/glycine rich domain are structural features of DGKθ. Six potential PKC phosphorylation sites lie between CRD3 and the PH domain. Cell-specific expression differentiate multiple isoforms of DGK. DGKθ is expressed primarily within the cerebellar cortex and hippocampus of the brain, but is also found in the small intestine and liver. The presence of the RA (Ras-associating) domain suggests that DGKθ may mediate activity of the Ras-like small GTP binding proteins.
Keywords	DGKQ; diacylglycerol kinase, theta 110kDa; DAGK; DAGK4; DAGK7; diacylglycerol kinase theta; DGK-theta; DAG kinase theta; diglyceride kinase theta;

GENE INFORMATION

Entrez Gene ID	1609
UniProt ID	P52824

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