

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects DGK-θ in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human DGK-α, -β, -γ, -ε, -I, -K, or -ζ is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 652308
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGK-θ Asp696-Lys839 Accession # P52824
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Diacylglycerol kinase theta (DGK-θ) is an approximately 110 kDa kinase that phosphorylates the lipid diacylglycerol. DGK-θ binds to RhoA, Akt, PKC epsilon and eta, and Steroidogenic Factor. It translocates to the nucleus or to the plasma membrane in response to NGF, TPA, or GPCR stimulation (thrombin, bradykinin, norepinephrine). DGK-θ contains three Cys-rich zinc finger regions (aa 60-108, aa 121-168, and aa 183-234), a Ras-associating domain (aa 395-494), two LxxLL motifs (aa 555-559 and aa 574-578), and a catalytic domain (aa 590-714). Over aa 696-839, human DGK-θ shares 90% aa sequence identity with mouse and rat DGK-θ.

PRODUCT SPECIFIC NOTICES

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