

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DGK-β in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human DGK-α, γ, ε, ι, κ, θ, or ζ is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 646523
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGK-β Met1-Ser143 Accession # Q9Y6T7
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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 beta (DGK-β) is an approximately 90 kDa kinase that phosphorylates the lipid diacylglycerol. It is expressed in the brain and colocalizes with D1 and D2 dopamine receptors. DGK-β promotes the formation and maturation of dendritic spines. It contains two EF-hand motifs (aa 149-184 and 194-229), two zinc finger regions (aa 244-294 and aa 309-358), and a catalytic domain (aa 434-568). Alternate splicing generates an additional isoform with a 31 aa C-terminal deletion. Over aa 1-143, human DGK-β shares 97% aa sequence identity with mouse and rat DGK-β.

PRODUCT SPECIFIC NOTICES

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