

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat DGK-γ in Western blots.
Source	Monoclonal Mouse IgG _{2B} Clone # 613531
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGK-γ Gly2-Ser126 Accession # P49619
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

DGK-γ (Diacylglycerol kinase gamma) is a 90 kDa, 791 amino acid (aa), type I member of the eukaryotic diacylglycerol kinase family of enzymes. DGK-γ possesses EF-hand, C1/Cys-rich zinc finger and catalytic domains, and is highly enriched in the retina and in cerebellar Purkinje cells. Expression elsewhere is limited to inactive isoforms missing kinase domain aa 451-475, or zinc finger aa 333-372. Upon calcium and PKCγ-mediated activation, it translocates to the plasma membrane. DGK-γ is also found in the nucleus, where it may promote cell cycle progression. Over aa 1-126, human DGK-γ shares 83% and 79% aa identity with mouse and rat DGK-γ, respectively.

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