

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DGF-δ in direct ELISAs.
Source	Monoclonal Mouse IgG _{2B} Clone # 625423
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGF-δ Ile570-Thr717 Accession # Q16760
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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 delta (DGK-δ) is a widely expressed 140 kDa member of the DGK family of kinases that phosphorylate the lipid diacylglycerol. DGK-δ contains a pleckstrin homology domain (aa 53-146), two zinc finger domains (aa 163-213 and aa 235-286), a catalytic domain (aa 317-451), and a sterile alpha motif (aa 1145-1208). An isoform of DGK-δ with a shortened N-terminus is expressed predominantly in ovary and spleen. The two isoforms can form intracellular homooligomers or heterooligomers with each other. The oligomers are disrupted by PKC following phorbol ester stimulation. DGK-δ regulates PKC mediated signaling downstream of the EGF receptor. Within aa 570-717, human DGK-δ shares 82% aa sequence identity with mouse and rat DGK-δ.

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