

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DGK-ζ in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human DGK-ζ Gln800-Val945 Accession # Q13574
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

DGK-ζ (Diacylglycerol kinase zeta; also DAG kinase 6) is a 130 kDa member of the eukaryotic diacylglycerol (DAG) kinase family of proteins. It exists in both cytoplasm and nucleus, and is widely expressed, being found in neurons, skeletal muscle cells and endothelium. DGK-ζ converts DAG into phosphatidic acid (PA). In the nucleus, this activates mTOR and promotes cell proliferation. In the cytoplasm, DGK-ζ-generated PA activates PAK1, leading to increased cell motility. Human DGK-ζ is 1117 amino acids (aa) in length and contains two DAG-type Zn-finger regions (aa 287-419), a MARCKS homology domain (aa 448-462) and a catalytic domain (aa 486-607). In addition to the 130 kDa protein, there are several splice variants that run about 114 kDa in SDS-PAGE.

PRODUCT SPECIFIC NOTICES

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