Human/Mouse/Rat DGK-θ Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 652308

Catalog Number: FAB6598G

100 µg

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects DGK-θ in direct ELISAs and Western blots. In direct ELISAs and Western blolts, no cross-reactivity with recombinant human DGK-α, -β, -γ, -ε, -ι, -κ, or -ζ is observed.
Source	Monoclonal Mouse IgG_1 Clone # 652308
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human DGK-θ Asp696-Lys839 Accession # P52824
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.

Bio-Techne®
Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956
USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449
China | info.cn@bio-techne.com TEL: 400.821.3475