

Human DGK-ζ Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6099

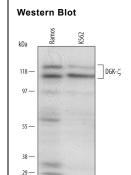
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human DGK-ζ in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human DGK-ζ Gln800-Val945 Accession # Q13574
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

DATA



Detection of Human DGK-ζ by Western Blot. Western blot shows lysates of Ramos human Burkitt's lymphoma cell line and K562 human chronic myelogenous leukemia cell line. PVDF Membrane was probed with 1 μg/mL of Goat Anti-Human DGK-ζ Antigen Affinity-purified Polyclonal Antibody (Cataloa # AF6099) followed by HRP-

1 μ g/mL of Goat Anti-Human DGK- ζ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6099) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). Specific bands were detected for DGK- ζ at approximately 124 & 114 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION	ON AND	STORAGE

 Reconstitution
 Reconstitute at 0.2 mg/mL in sterile PBS.

 Shipping
 The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

Rev. 2/6/2018 Page 1 of 1

