

Human/Mouse DGK-ε Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF7069

DESCRIPTION		
Species Reactivity	Human/Mouse	
Specificity	Detects recombinant human DGK-ε in direct ELISAs. Detects human and mouse DGK-ε in Western blots.	
Source	Polyclonal Sheep IgG	
Purification	Antigen Affinity-purified	
Immunogen	<i>E. coli</i> -derived recombinant human DGK-ε Asn314-Arg435 Accession # P52429	
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

DATA

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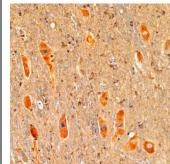
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Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Immunohistochemistry	5-15 μg/mL	See Below

Detection of Human and Mouse DGK-ε by Western Blot. Western blot shows lysates of Caki-2 human clear cell carcinoma epithelial cell line, K562 human chronic myelogenous leukemia cell line, and NIH-3T3 mouse embryonic fibroblast cell line. PVDF membrane was probed with 1 μg/mL of Sheep Anti-Human DGK-ε Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7069) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for DGK-ε at approximately 65 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunohistochemistry



DGK- ϵ in Human Brainstem. DGK- ϵ was detected in immersion fixed paraffinembedded sections of human brainstem using Sheep Anti-Human DGK- ϵ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF7069) at 10 μ g/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies and processes. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.2 mg/mL.

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 $^{\circ}$ 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-ε (Diacylglycerol kinase epsilon) is a 65 kDa member of the eukaryocytic diacylglycerol kinase family of enzymes. It is a type III DGK that possesses only a C1/Cys-rich domain and a catalytic region, and is found in neurons and testis. DGK-ε specifically phosphorylates arachidonate-containing DAG, and may downregulate DAG signaling that results from inositol cycling. Human DGK-ε is 567 amino acids (aa) in length. It would appear to contain one transmembrane domain (aa 22-42), two C1 DAG-binding regions (aa 59-108 and 124-177) and one catalytic domain (aa 219-350). DGK-ε apparently can form intramembrane oligomers. Over aa 314-435, human DGK-ε shows 99% aa identity to mouse DGK-ε.

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