

## Human DGK-β Antibody

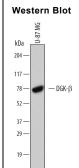
Monoclonal Mouse IgG<sub>1</sub> Clone # 646523 Catalog Number: MAB6727

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human DGK- $\beta$ in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human DGK- $\alpha$ , $\gamma$ , $\epsilon$ , $\iota$ , $\kappa$ , $\theta$ , or $\zeta$ is observed.	
Source	Monoclonal Mouse IgG <sub>1</sub> Clone # 646523	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant human DGK-β Met1-Ser143 Accession # Q9Y6T7	
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.	

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	0.5 μg/mL	See Below

# DATA



Detection of Human DGK-β by Western Blot. Western blot shows lysates of U-87 MG human glioblastoma/astrocytoma cell line. PVDF Membrane was probed with 0.5  $\mu$ g/mL of Mouse Anti-Human DGK- $\beta$ Monoclonal Antibody (Catalog # MAB6727) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for DGK-β at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 5.

### PREPARATION AND STORAGE

Reconstitution Sterile PBS to a final concentration of 0.5 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 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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.

Diacylglycerol kinase beta (DGK-β) is an approximately 90 kDa kinase that phosphorylates the lipid diacylglycerol. It is expressed in the brain and colocalizes with D1 and D2 dopamine receptors. DGK-β promotes the formation and maturation of dendritic spines. It contains two EF-hand motifs (aa 149-184 and 194-229), two zinc finger regions (aa 244-294 and aa 309-358), and a catalytic domain (aa 434-568). Alternate splicing generates an additional isoform with a 31 aa C-terminal deletion. Over aa 1-143, human DGK-β shares 97% aa sequence identity with mouse and rat DGK-β.

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