

DESCRIPTION

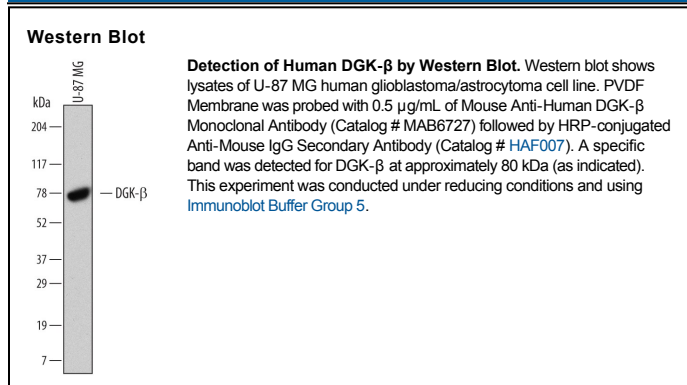
Species Reactivity	Human
Specificity	Detects human DGK- β in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human DGK- α , γ , ϵ , ι , κ , θ , or ζ is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 646523
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGK- β Met1-Ser143 Accession # Q9Y6T7
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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	0.5 μ g/mL	See Below

DATA



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. <ul style="list-style-type: none"> ● 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

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 .