

DESCRIPTION

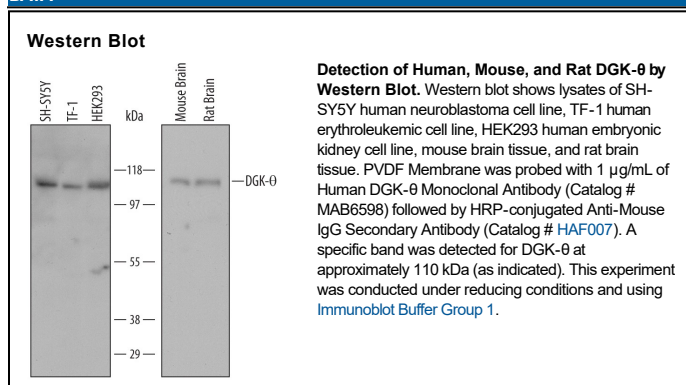
Species Reactivity	Human/Mouse/Rat
Specificity	Detects DGK- θ in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human DGK- α , - β , - γ , - ϵ , - ι , - κ , or - ζ is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 652308
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGK- θ Asp696-Lys839 Accession # P52824
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 either lyophilized or 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	1 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 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 .