RD SYSTEMS a biotechne brand

Human/Mouse DGK-I Antibody

Monoclonal Mouse IgG_{2A} Clone # 648538 Catalog Number: MAB6435

DESCRIPTION

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Species Reactivity	Human/Mouse
Specificity	Detects human and mouse DGK-ι in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human DGK-α, -β, -δ, -ε, -η, -γ, -κ, -θ, or -ζ is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 648538
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGK-ı Ser925-Val1065 (predicted) Accession # O75912
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

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

Western Blat		
Western Blot	Detection of Human and Mouse DGK-i by Western Blot. Western blot shows lysates of SH-SY5Y human neuroblastoma cell line and mouse brain tissue. PVDF Membrane was probed with 1 µg/mL of Human/Mouse/Rat DGK-I Antigen Affinity-purified Monoclonal Antibody (Catalog # MAB6435) followed by HRP- conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for DGK-I at approximately 115 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.	
PREPARATION AND S	TORAGE	
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.

BACKGROUND

Diacylglycerol kinase iota (DGK-I) is an approximately 110 kDa kinase that phosphorylates the lipid diacylglycerol. DGK-I also inhibits RasGRP3 and limits Rap1 activation. It contains two zinc finger regions (aa 178-232 and aa 251-310), a catalytic domain (aa 372-507), and two ankyrin repeats (aa 958-990 and aa 997-1026). Over aa 925-1065, human DGK-I shares 94% and 96% aa sequence identity with mouse and rat DGK-I, respectively.

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