

DESCRIPTION

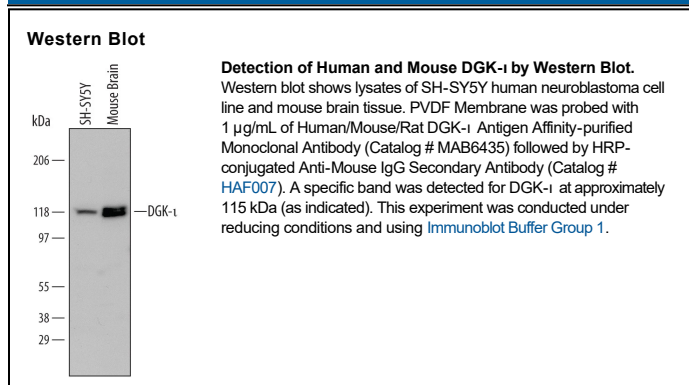
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse DGK- ι in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human DGK- α , - β , - δ , - ϵ , - η , - κ , - θ , or - ζ is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 648538
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human DGK- ι Ser925-Val1065 (predicted) Accession # O75912
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 iota (DGK- ι) is an approximately 110 kDa kinase that phosphorylates the lipid diacylglycerol. DGK- ι 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- ι shares 94% and 96% aa sequence identity with mouse and rat DGK- ι , respectively.