

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 , - 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- ι Ser925-Val1065 (predicted) Accession # O75912
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Diacylglycerol kinase ι (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.

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