

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse PKCα in Western blots.
Source	Monoclonal Rat IgG _{2B} Clone # 421810
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human PKCα Lys604-Val672 Accession # P17252
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

PKCα (Protein kinase C alpha) is an 80 kDa member of the PKC subfamily, AGC Ser/Thr protein kinase family of enzymes. It is widely expressed, and serves multiple cell-specific functions. PKCα is activated by increased diacylglycerol and intracellular calcium, and translocates to several sites such as the Golgi, nucleus and plasma membrane. Human PKCα contains two zinc finger regions (aa 36-151), a protein kinase domain (aa 339-557), and an AGC kinase region (aa 598-668). Phosphorylations on Thr497, Thr638 and Ser657 are necessary for kinase activity. Over aa 604-672, human PKCα shows 100% aa identity to mouse PKCα.

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