Human PKCθ Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 453416

Catalog Number: IC4368R

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PKCθ. This antibody also detects recombinant human PKCθ, but does not detect any other recombinant human PKC family member.
Source	Monoclonal Mouse IgG_{2A} Clone # 453416
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PKCθ His580-Ser706 Accession # Q04759
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.*

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10^6 cells	Jurkat human acute T cell leukemia cell line fixed with paraformaldehyde and permeabilized with methanol

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

PKCθ (PRKCQ) is a calcium-independent phospholipid-dependent serine and threonine kinase that belongs to the novel PKC subfamily. PKCθ plays a critical role in several aspects of T cell biology, and knockout mice develop autoimmune disease. PKCθ functions through the activation of NFκB and AP1 transcription factors.

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