

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human PKC $\theta$ . This antibody also detects recombinant human PKC $\theta$ , but does not detect any other recombinant human PKC family member.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 453416
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human PKC $\theta$ His580-Ser706 Accession # Q04759
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 $\mu$ g/10 <sup>6</sup> cells	Jurkat human acute T cell leukemia cell line fixed with paraformaldehyde and permeabilized with methanol

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## BACKGROUND

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

## PRODUCT SPECIFIC NOTICES

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