

Human PKC0 Antibody

Monoclonal Mouse IgG_{2A} Clone # 453416 Catalog Number: MAB4368

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 PKC0 His580-Ser706 Accession # Q04759
Formulation	Lyophilized from a 0.2 µm 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 µm filtered solution in PBS.

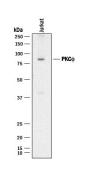
APPLICATIONS

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.

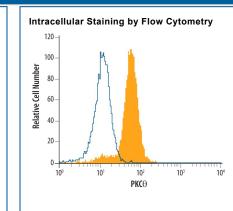
	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 μg/10 ⁶ cells	See Below
Simple Western	5 μg/mL	See Below
CyTOF-ready	Ready to be labeled with conjugation.	using established conjugation methods. No BSA or other carrier proteins that could interfere

DATA

Western Blot

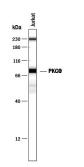


Detection of Human PKC® by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line. PVDF membrane was probed with 2 µg/mL of Human PKC® Monoclonal Antibody (Catalog # MAB4368) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for PKC® at approximately 82 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.



Detection of PKC0 in Jurkat **Human Cell Line by Flow** Cytometry. Jurkat human acute T cell leukemia cell line was stained with Human PKCθ Monoclonal Antibody (Catalog # MAB4368, filled histogram) or isotype control antibody (Catalog # MAB003, open histogram), followed by Phycoerythrin-conjugated Anti-Mouse IgG F(ab')₂ Secondary Antibody (Catalog # F0102B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with methanol.

Simple Western



Detection of Human PKC0 by Simple WesternTM. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for PKC0 at approximately 82 kDa (as indicated) using 5 µg/mL of Mouse Anti-Human PKC0 Monoclonal Antibody (Catalog # MAB4368). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.



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Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
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.	
	 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

PKC0 (PRKCQ) is a calcium-independent phospholipid-dependent serine and threonine kinase that belongs to the novel PKC subfamily. PKC0 plays a critical role in several aspects of T cell biology, and knockout mice develop autoimmune disease. PKC0 functions through the activation of NFkB and AP1 transcription factors.

