PKCθ (N-terminal region)

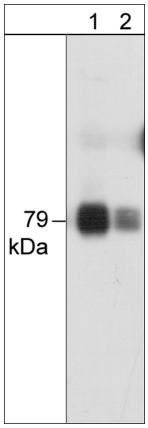
Cat. #	PM2171
Host	Mouse Monoclonal IgG2a
Size	100 µl

Background:

The Protein Kinase C (PKC) family of homologous serine/threonine protein kinases is involved in a number of processes such as growth, differentiation, and cytokine secretion. At least eleven isozymes have been described. PKC consists of a single polypeptide chain containing four conserved regions (C) and five variable regions (V). The N-terminal half interacts with PKC activators Ca^{2+}, phospholipid, diacylglycerol, or phorbol ester, while the C-terminal half contains the catalytic domain. The conventional PKC subfamily (α, βI, βII, and γ) is regulated by both Ca^{2+} and diacylglycerol. The PKC pathway represents a major signal transduction system that is activated following ligand-stimulation of transmembrane receptors by hormones, neurotransmitters, and growth factors. The phosphorylation of multiple sites in PKCs regulates their activity.

References

Kawakami et al. (2003) Proc. Natl. Acad. Sci. USA 100:9470-9475.
Nishizuka, Y. (1988) Nature 334:661.



Western blot analysis of PKCθ in human Jurkat cell lysate. The blot was probed with anti-PKCθ at 1:250 (lane 1) and 1:1000 (lane 2).

Immunogen:

Clone (M217) was generated from a recombinant mouse PKCθ protein that included amino acids residues in the N-terminal region. This sequence is conserved in human and rat PKCθ, and has low homology to other PKC family members.

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at –20°C. Do not aliquot. Stable for 1 year.

Applications:

WB	1:1000
ELISA	1:2000

End user should determine optimal dilution for their particular applications and experiments. Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1hour at room temperature.

Specificity:

This antibody detects a 79 kDa* protein corresponding to the molecular mass of PKCθ on SDS-PAGE immunoblots of human Jurkat cell lysates.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Related Products:

PM1101 PKC (α,β,γ) Mouse Monoclonal
PM2371 PKCα (Central region) Mouse Monoclonal
PP1091 PKCα (Ser-657/Tyr-658), phospho-specific Rabbit Polyclonal
PM2421 PKCδ (N-terminal region) Mouse Monoclonal

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