

PKC θ (N-terminal region)

Cat. # PM2171

Host Mouse Monoclonal IgG2a

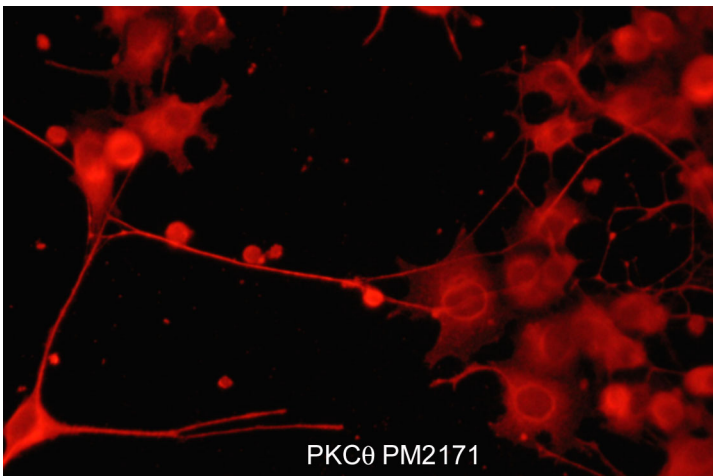
Size 100 μ l

Background:

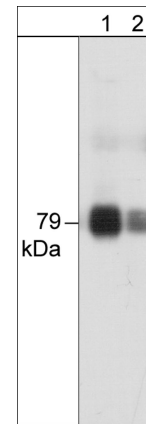
The Protein Kinase C (PKC) family of homologous serine/threonine protein kinases is involved in a number of processes such as growth, differentiation, and cytokine secretion. At least eleven isozymes have been described. PKC consists of a single polypeptide chain containing four conserved regions (C) 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 , β I, β II, 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.



Immunocytochemical labeling of PKC θ in rat PC12 cells differentiated with NGF. The cells were labeled with mouse monoclonal PKC θ (N-terminal region) antibody, then detected using appropriate secondary antibody conjugated to Cy3.



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

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Size 100 μ l

Immunogen:

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

Buffer and Storage:

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100 μ l 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

ICC 1:100

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 PKC θ 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 PKC α (Central region) Mouse Monoclonal

PP1091 PKC α (Ser-657/Tyr-658), phospho-specific Rabbit Polyclonal

PM2421 PKC δ (N-terminal region) Mouse Monoclonal

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