

# Anti-PKC ( $\alpha$ , $\beta$ , $\gamma$ ) Antibody

Catalog # AN1905

## Product Information

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<b>Application</b>	WB, ICC
<b>Primary Accession</b>	<a href="#">P05129</a>
<b>Host</b>	Mouse
<b>Clonality</b>	Mouse Monoclonal
<b>Isotype</b>	IgG2a
<b>Clone Names</b>	M499
<b>Calculated MW</b>	78448

## Additional Information

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<b>Gene ID</b>	5582
<b>Other Names</b>	PKCalpha, PKCbeta, PKCgamma
<b>Dilution</b>	WB~~1:1000 ICC~~N/A
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Anti-PKC ( $\alpha$ , $\beta$ , $\gamma$ ) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
<b>Shipping</b>	Blue Ice

## Background

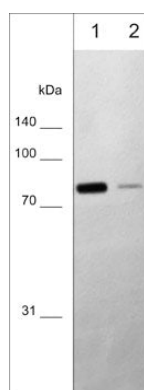
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The Protein Kinase C (PKC) family of homologous serine/threonine protein kinases is involved in a number of processes such as growth, differentiation, and cytokine secretion. At least eleven isozymes have been described. PKC consists of a single polypeptide chain containing four conserved regions (C) and five variable regions (V). The N-terminal half interacts with PKC activators  $\text{Ca}^{2+}$ , phospholipid, diacylglycerol, or phorbol ester, while the C-terminal half contains the catalytic domain. The conventional PKC subfamily ( $\alpha$ ,  $\beta$ 1,  $\beta$ II, and  $\gamma$ ) is regulated by both  $\text{Ca}^{2+}$  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 conventional PKCs regulates their activity. In mast cells, Fc $\epsilon$ RI stimulation leads to phosphorylation of tyrosine 658 and 662 of PKC $\alpha$  and PKC $\beta$ I respectively. This phosphorylation requires autophosphorylation of serine 657 and 661 in these respective kinases.

## Images

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Western blot analysis of PKC isoforms in adult mouse brain lysate. The blot was probed with mouse monoclonal anti-PKC ( $\alpha$ , $\beta$ , $\gamma$ ) clone M499 at 1:250 (lane 1) and 1:1000



(lane 2).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.