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Anti-PKC (α,β,γ) Antibody

Catalog # AN1905

Product Information

Application	WB, ICC
Primary Accession	P05129
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG2a
Clone Names	M499
Calculated MW	78448

Additional Information

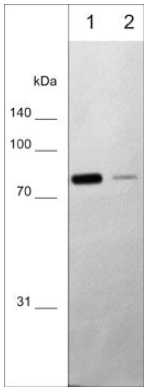
Gene ID	5582
Other Names	PKCalpha, PKCbeta, PKCgamma
Dilution	WB~~1:1000 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-PKC (α,β,γ) Antibody is for research use only and not for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

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 Ca2+, phospholipid, diacylglycerol, or phorbol ester, while the C-terminal half contains the catalytic domain. The conventional PKC subfamily (α, β1, βII, and γ) is regulated by both Ca2+ 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, FceRI stimulation leads to phosphorylation of tyrosine 658 and 662 of PKCα and PKCβI respectively. This phosphorylation requires autophosphorylation of serine 657 and 661 in these respective kinases.

Images

Western blot analysis of PKC isoforms in adult mouse brain lysate. The blot was probed with mouse monoclonal anti-PKC (α,β,γ) 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'.