10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PKCδ (N-terminal region) Antibody

Catalog # AN1907

Product Information

Application	WB, ICC
Primary Accession	Q05655
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG2b
Clone Names	M242
Calculated MW	77505

Additional Information

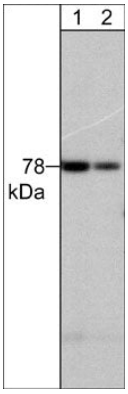
Gene ID	5580
Other Names	PKCdelta
Dilution	WB~~1:1000 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-PKCδ (N-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

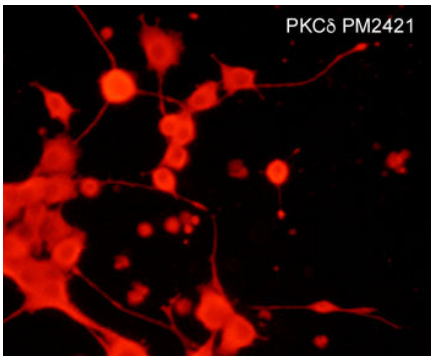
Background

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 PKCs regulates their activity.

Images

Western blot analysis of adult mouse brain tissue lysate. The blot was probed with mouse monoclonal anti-PKCδ (N-terminal region) at 1:125 (lane 1) and 1:500 (lane 2).





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