Catalog No. LF-PA0073

POLYCLONAL ANTIBODY

Anti- PKC nu (Protein kinase C nu)

Background : Protein kinase C (PKC) is a family of serine-threonine kinases that regulate a broad spectrum of cellular functions. The family is composed of nine genes that express structurally related phospholipid-dependent kinases with distinct means of regulation and tissue distribution. Based on their structures and sensitivities to Ca2+ and diacylglycerol (DAG), they have been classified into conventional PKCs (α, β, and γ), novel PKCs (δ, ε, η, and θ), and atypical PKCs (ζ and λ/ι).
A novel serine-threonine kinase of the protein kinase C (PKC) family has been described and designated as PKCν (PKC nu) which has two putative diacylglycerol binding C1 domains. PKCν is abundantly expressed in human B-cells, and it is a downstream effector for BCR (B-cell antigen receptor)-mediated DAG production. The closest homologues of PKCν are PKD1/PKCμ and PKD2, and together these three kinases form a distinct protein kinase subfamily. They share a predicted tertiary structure that includes two C1 domains contained in their amino-terminal halves, a single central pH domain, and closely homologous kinase domains in their COOH-terminal halves.

Immunogen : Synthetic peptide

Host : Rabbit

Type : Polyclonal Antibody

Isotype : IgG

Size : 100 μℓ

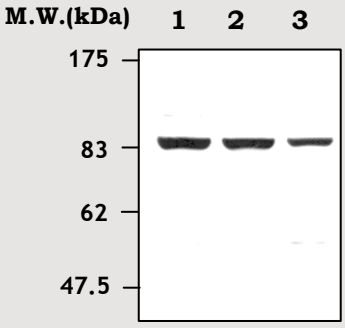
Compositon : Hepes with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

Positive control : HeLa cell lysate

Storage : Store for 1 year at –20℃ from date of shipment.

Species cross reactivity

Human	Mouse	Rat
+	+	-



Immunoblot Analysis
Lane 1 : HeLa cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : NIH3T3 cell lysate

Applications :
Westetn Blotting(1:2,000)

Background Reference :
1) Matthews S.A. et al., 2003, J Biol Chem. 278:9086-9091
2) Nakashima, S., 2002, J Biochem (Tokyo). 132:669-675
3) Saito N. and Shirai Y., 2002, J Biochem (Tokyo). 132:683-687
4) Hayashi, A. et al., 1999, Biochim Biophys Acta. 1450:99-106

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium
http://www.gentaur-worldwide.com