

PKC

Antibody Sampler Kit

Cat. # PK7560
Size Kit

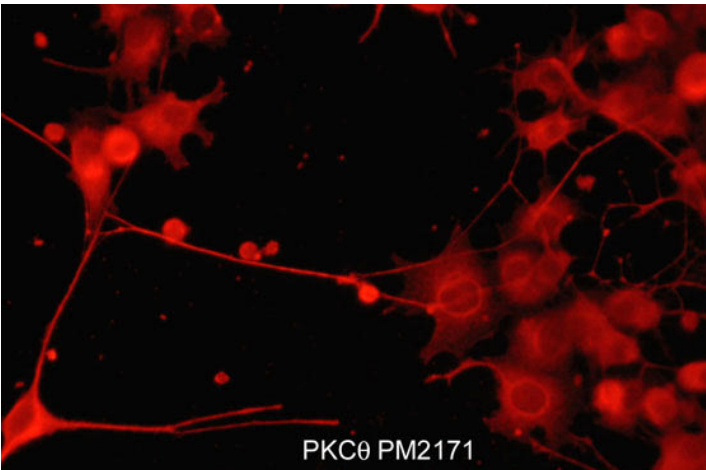
Kit Summary

The PKC Antibody Sampler kit can be used to examine the expression levels of PKC α , PKC β , PKC γ , PKC δ , and PKC θ . The kit includes mouse monoclonal antibodies that detect PKC (α, β, γ) isoforms (M499), as well as antibodies to detect the specific isoforms: PKC α , PKC β , PKC γ , PKC δ , and PKC θ specifically.

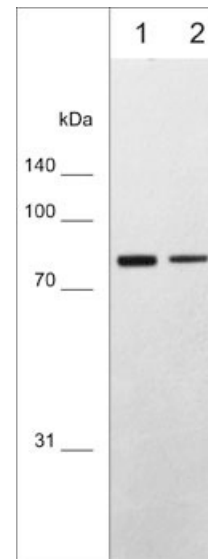
Kit Components

Cat. #	Description	Product Type	Size	Applications	Species Reactivity	WB Dilution
PM2371	PKC α (Central region)	Mouse mAb	50 μ l	WB, E, IP, ICC, IHC	Hu, Rt, Ms	1:1000
PM4991	PKC (α, β, γ) M499	Mouse mAb	50 μ l	WB, ICC, E	Hu, Rt, Ms, Ck	1:1000
PM5981	PKC β (N-terminal region) M598	Mouse mAb	50 μ l	WB, ICC, E	Hu, Rt, Ms, Ck	1:1000
PM2421	PKC δ (N-terminal region)	Mouse mAb	50 μ l	WB, E, ICC	Hu, Rt, Ms	1:250
PM5991	PKC γ (C-terminus) M599	Mouse mAb	50 μ l	WB, E	Hu, Rt, Ms, Ck	1:1000
PM2171	PKC θ (N-terminal region)	Mouse mAb	50 μ l	WB, E, ICC	Hu, Rt, Ms	1:1000

Applications: WB = Western blot, E = ELISA, ICC = Immunocytochemistry, IP = Immunoprecipitation, IHC = Immunohistochemistry, FC = Flow Cytometry
Species: H = Human, R = Rat, M = Mouse, C = Chicken, F = Fish, Fr = Frog, Rb = Rabbit



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 β in adult mouse brain lysate. The blot was probed with mouse monoclonal anti-PKC β clone M598 at 1:1000 (lane 1) and 1:4000 (lane 2).

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

www.ecmbiosciences.com
telephone: 859-879-2075
toll-free: 1-800-859-8202
info@ecmbiosciences.com

ECMBiosciences

Rev 4/25/2017

PKC

Antibody Sampler Kit

Cat. # PK7560

Size Kit

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 , β 1, β II, 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, Fc ϵ RI stimulation leads to phosphorylation of tyrosine 658 and 662 of PKC α and PKC β I respectively. This phosphorylation requires autophosphorylation of serine 657 and 661 in these respective kinases.

Background References

Kawakami et al. (2003) PNAS. USA 100:9470-9475.

Nishizuka, Y. (1988) Nature 334:661.

Buffer and Storage

Mouse monoclonal antibodies are supplied in phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store all at -20°C. Stable for 1 year.

Product Citations

Cat. # **Citation & Application**

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.