[Primary Antibody]

phospho-PKC alpha (Thr638) Rabbit pAb



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- DATASHEET -Host: Rabbit Isotype: IgG Applications: WB (1:500-2000) **IHC-P** (1:100-500) Clonality: Polyclonal **IHC-F** (1:100-500) GenelD: 5578 SWISS: P17252 IF (1:100-500) Target: PKC alpha (Thr638) Reactivity: Mouse, Rat Immunogen: KLH conjugated synthesised phosphopeptide derived from human (predicted: Human, Cow, PKC alpha around the phosphorylation site of Thr638: VL(p-T)PP. Chicken, Dog, Horse) Purification: affinity purified by Protein A Predicted Concentration: 1mg/ml 77 kDa MW.: Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Subcellular Cell membrane, Cytoplasm Glycerol. Location: ,Nucleus Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: Protein Kinase c alpha (PKC alpha) is an 77 kDa member of the conventional group (cPKCs: sensitive to calcium, diacylglycerol, phosphatidylserine and phorbol esters) of the PKC family of serine/ threonine kinases that are involved in a wide range of physiological processes including mitogenesis, cell survival and transcriptional regulation. PKC alpha is an ubiquitously expressed PKC isozyme that has been implicated in the regulation of a broad range of cellular functions including proliferation, differentiation, development, migration, cell cell adhesion, cell extracellular matrix adhesion, and solute transport. The activation loop threonine (threonine 497 in PKC alpha) of conventional PKCs is phosphorylated by phosphoinositide dependent kinase 1 (PDK1). This phosphorylation is necessary for the autophosphorylation of threonine 638 in the carboxy terminus of PKC alpha, a step that is critical for regulating the rate of PKC alpha dephosphorylation and inactivation.

– VALIDATION IMAGES



Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-Phospho-PKC alpha/beta II (Thr638/641) (bs-3333R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 77 kD Observed band size: 77 kD



Paraformaldehyde-fixed, paraffin embedded (Rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PKC alpha beta II (Thr638 641)) Polyclonal Antibody, Unconjugated (bs-3333R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat pancreas); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Phospho-PKC alpha beta II (Thr638 641)) Polyclonal Antibody, Unconjugated (bs-3333R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

- SELECTED CITATIONS -

• [IF=10.82] Edens, Lisa J., and Daniel L. Levy. "cPKC regulates interphase nuclear size during Xenopus development."

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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- [IF=6.117] Minghui Zhang. et al. Selenomethionine promotes ANXA2 phosphorylation for proliferation and protein synthesis of myoblasts and skeletal muscle growth. J NUTR BIOCHEM. 2023 Feb;:109277 WB ;MOUSE. 36739096
- **[IF=5.195]** Jiawei Wang. et al. Validation of MAPK signalling pathway as a key role of paeoniflorin in the treatment of intrahepatic cholestasis of pregnancy based on network pharmacology and metabolomics. EUR J PHARMACOL. 2022 Nov;935:175331 WB ;Rat. 36273619
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- [IF=3.881] Rui Ding. et al. Endoplasmic reticulum stress and oxidative stress contribute to neuronal pyroptosis caused by cerebral venous sinus thrombosis in rats: Involvement of TXNIP/peroxynitrite-NLRP3 inflammasome activation. Neurochem Int. 2020 Dec;141:104856 WB,IF ;Rat. 32980492