

bs-3531R**[Primary Antibody]****PKC alpha Rabbit pAb****BioSS**
ANTIBODIES

www.bioss.com.cn

sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 5578 Target: PKC alpha Immunogen: KLH conjugated synthetic peptide derived from human PKC alpha: 151-250/672. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. 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.	Isotype: IgG SWISS: P17252	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ELISA (1:5000-10000) Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Chicken, Dog, Horse) Predicted MW.: 77 kDa Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus
--	---	---

— SELECTED CITATIONS —

- **[IF=7.033]** Ning-Ke Guo. et al. Nano Parthenolide Improves Intestinal Barrier Function of Sepsis by Inhibiting Apoptosis and ROS via 5-HTR2A. INT J NANOMED. 2023 Feb 10 WB ;Rat. 36816330
- **[IF=6.3]** Suqin Zhu. et al. Oleanolic Acid Up-Regulated UGT1A1 and Antagonized Inflammation by Affecting the Binding of PXR and PKCα to HSP90α and SRC1. PHYTOTHER RES. 2025 May;; WB,IF,CoIP ;Human,Rat. 40420319
- **[IF=4.59]** Qiao et al. Polydatin Attenuates H2O2-Induced Oxidative Stress via PKC Pathway. (2016) Oxid.Med.Cell.Longe. 2016:5139458 WB ;Human. 26881030
- **[IF=3.73]** Haolong, Du, et al. "Enterovirus 71 VP1 Activates Calmodulin-Dependent Protein Kinase II and Results in the Rearrangement of Vimentin in Human Astrocyte Cells." PLoS One 8(9): e73900 WB ;="Human". 24073199
- **[IF=3.95]** Yao, Gaoyi, et al. "Chronic SO₂ inhalation above environmental standard impairs neuronal behavior and represses glutamate receptor gene expression and memory-related kinase activation via neuroinflammation in rats." Environmental Research 137 (2015): 85-93. WB ;="Rat". 25498917