

PKC alpha(Phospho T497)(17Y11) Rabbit Monoclonal Antibody



产品详情

产品货号	产品名称	储存条件	保质期
IM37106	PKC alpha(Phospho T497) (17Y11) Rabbit Monoclonal Antibody	-20℃	1 年

产品概述:

产品货号	IM37106
别名	EC 2.7.11.13;KPCA;PKC III;PKC-A;PKC-III;PKC-alpha;PRKACA;PRKCA; Protein kinase C;alpha type;kinase PKC-alpha.
产品名称	PKC alpha(Phospho T497) (17Y11) Rabbit Monoclonal Antibody
纯度	Affinity-chromatography
类别	抗体产品
基因名称	PRKCA
蛋白名称	PKCA, PRKACA
推荐应用	WB, IHC-P, IF-P
反应种属	Human, Mouse, Rat
存储缓冲液	Supplied in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Human Gene ID	5578
Human Swissprot No.	P17252

免疫原	A synthetic phosphopeptide corresponding to residues surrounding Thr638 of human PKC alpha.
稀释度	WB 1:2000-1:20000, IHC-P/IF-P 1:100-1:200
参考分子量	80kDa
预测分子量	77kDa
运输及保存条件	Biological ice bag transportation. Store at -20℃ for at least 12 months (Do not lower than 25℃). Avoid freeze/thaw cycles.
宿主	Rabbit
同种型	IgG
注意事项	Phospho-PKC alpha (T497) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
细胞定位	Cytoplasm. Cell membrane; Peripheral membrane protein. Mitochondrion membrane; Peripheral membrane protein. Nucleus {ECO:0000250 UniProtKB:P20444}.
功能	Calcium-activated, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase that is involved in positive and negative regulation of cell proliferation, apoptosis, differentiation, migration and adhesion, tumorigenesis, cardiac hypertrophy, angiogenesis, platelet function and inflammation, by directly phosphorylating targets such as RAF1, BCL2, CSPG4, TNNT2/CTNT, or activating signaling cascade involving MAPK1/3 (ERK1/2) and RAP1GAP. Involved in cell proliferation and cell growth arrest by positive and negative regulation of the cell cycle. Can promote cell growth by phosphorylating and activating RAF1, which mediates the activation of the MAPK/ERK signaling cascade, and/or by up-regulating CDKN1A, which facilitates active cyclin-dependent

功能

kinase(CDK)complex formation in glioma cells.In intestinal cells stimulated by the phorbol ester PMA,can trigger a cell cycle arrest program which is associated with the accumulation of the hyper-phosphorylated growth-suppressive form of RB1 and induction of the CDK inhibitors CDKN1A and CDKN1B.Exhibits anti-apoptotic function in gliom cells and protects them from apoptosis by suppressing the p53/TP53-mediated activation of IGFBP3,and in leukemia cells mediates anti-apoptotic action by phosphorylating BCL2.During macrophage differentiation induced by macrophage colony-stimulating factor(CSF1),is translocated to the nucleus and is associated with macrophage development.After wounding, translocates from focal contacts to lamellipodia and participates in the modulation of desmosomal adhesion.Plays a role in cell motility by phosphorylating CSPG4,which induces association of CSPG4 with extensive lamellipodia at the cell periphery and polarization of the cell accompanied by increases in cell motility.During chemokine-induced CD4(+)T cell migration,phosphorylates CDC42-guanine exchange factor DOCK8 resulting in its dissociation from LRCH1 and the activation of GTPaseCDC42(PubMed:28028151).Is highly expressed in a number of cancer cells where it can act as a tumor promoter and is implicated in malignant phenotypes of several tumors such as gliomas and breast cancers.Negatively regulates myocardial contractility and positively regulates angiogenesis, platelet aggregation and thrombus formation in arteries.Mediates hypertrophic growth of neonatal cardiomyocytes,in part through a MAPK1/3(ERK1/2)-dependent signaling pathway,and upon PMA treatment, is required to induce cardiomyocyte hypertrophy up to heart failure and death,by increasing protein synthesis,protein-DNA ratio and cell surface area.Regulates cardiomyocyte function by phosphorylating

功能	cardiac troponin T(TNNT2/CTNT),which induces significant reduction in actomyosin ATPase activity,myofilament calcium sensitivity and myocardial contractility.In angiogenesis,is required for full endothelial cell migration,adhesion to vitronectin(VTN),and vascular endothelial growth factor A(VEGFA)-dependent regulation of kinase activation and vascular tube formation.Involved in the stabilization of VEGFA mRNA at post transcriptional level and mediates VEGFA-induced cell proliferation.In the regulation of calcium induced platelet aggregation,mediates signals from the CD36/GP4 receptor for granule release,and activates the integrin heterodimer ITGA2B-ITGB3 through the RAP1GAP pathway for adhesion. During response to lipopolysaccharides(LPS),may regulate selective LPS-induced macrophage functions involved in host defense and inflammation.But in some inflammatory responses,may negatively regulate NF-kappa-B-induced genes,through IL1A-dependent induction of NF-kappa-B inhibitor alpha(NFKBIA/IKBA).Upon stimulation with 12-O-tetradecanoylphorbol-13-acetate(TPA),phosphorylates EIF4G1, which modulates EIF4G1 binding to MKNK1 and may be involved in the regulation of EIF4E phosphorylation.Phosphorylates KIT,leading to inhibition of KIT activity.Phosphorylates ATF2 which promotes cooperation between ATF2 and JUN,activating transcription. Phosphorylates SOCS2 at 'Ser- 52' facilitating its ubiquitination and proteosomal degradation(By similarity).
Clonality	Monoclonal

注意事项:

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第 5 页 共 5 页



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