— ABLYBIO, Help Your Research

Phospho-PKC zeta/lambda (Thr410/Thr412) (YD32134) Rabbit mAb

货号: AYD13764

产品信息

反应	Human,Mouse,Rat
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	WB IHC-P
推荐浓度	
理论分子量	78kDa/68kDa/68kDa
实测分子量	
形式	Liquid
保存条件	Store at -20℃. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	
细胞定位	Cytoplasm, perinuclear region, Cell membrane, Synapse, synaptosome, Cell projection, dendrite, Membrane, Endosome, Nucleus, Cell junction
纯化	亲和纯化

抗原信息

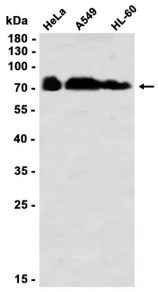
抗原信息	

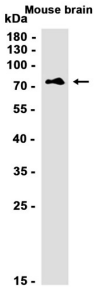
靶点信息

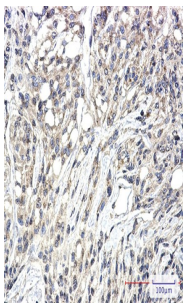
研究背景	Calcium-activated, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase tha t plays diverse roles in neuronal cells and eye tissues, such as regulation of the neuronal receptors GRIA 4/GLUR4 and GRIN1/NMDAR1, modulation of receptors and neuronal functions related to sensitivity to opi ates, pain and alcohol, mediation of synaptic function and cell survival after ischemia, and inhibition of ga p junction activity after oxidative stress. Binds and phosphorylates GRIA4/GLUR4 glutamate receptor and regulates its function by increasing plasma membrane-associated GRIA4 expression. In primary cerebella r neurons treated with the agonist 3,5-dihyidroxyphenylglycine, functions downstream of the metabotropi c glutamate receptor GRM5/MGLUR5 and phosphorylates GRIN1/NMDAR1 receptor which plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memory acquisition and learning. May be involved i n the regulation of hippocampal long-term potentiation (LTP), but may be not necessary for the process of synaptic plasticity. May be involved in desensitization of mu-type opioid receptor-mediated G-protein acti vation in the spinal cord, and may be critical for the development and/or maintenance of morphine-induc ed reinforcing effects in the limbic forebrain. May modulate the functionality of mu-type-opioid receptors by participating in a signaling pathway which leads to the phosphorylation and degradation of opioid rece ptors. May also contributes to chronic morphine-induced changes in nociceptive processing. Plays a role i n neuropathic pain mechanisms and contributes to the maintenance of the allodynia pain produced by pe ripheral inflammation. Plays an important role in initial sensitivity and tolerance to ethanol, by mediating the behavioral effects of ethanol as well as the effects of this drug on the GABA(A) receptors. During and after cerebral ischemia modulate neurotransmission and cell survival in synaptic membranes, and is invol ved in insulin-induced inhibition of necrosis, an important mechanism for minimizing ischemic injury. Req uired for the elimination of multiple climbing fibers during innervation of Purkinje cells in developing cere bellum. Is activated in lens epithelial cells upon hydrogen peroxide treatment, and phosphorylates conne xin-43 (GJA1/CX43), resulting in disassembly of GJA1 gap junction plaques and inhibition of gap junction a ctivity which could provide a protective effect against oxidative stress (By similarity). Phosphorylates p5 3/TP53 and promotes p53/TP53-dependent apoptosis in response to DNA damage. Involved in the phase r esetting of the cerebral cortex circadian clock during temporally restricted feeding. Stabilizes the core clo ck component BMAL1 by interfering with its ubiquitination, thus suppressing its degradation, resulting in phase resetting of the cerebral cortex clock (By similarity). Phosphorylates and activates LRRK1, which p hosphorylates RAB proteins involved in intracellular trafficking (PubMed:36040231) Calcium- and diacylgl ycerol-independent serine/ threonine-protein kinase that plays a general protective role against apoptotic stimuli, is involved in NF-kappa-B activation, cell survival, differentiation and polarity, and contributes to t he regulation of microtubule dynamics in the early secretory pathway. Is necessary for BCR-ABL oncogen e-mediated resistance to apoptotic drug in leukemia cells, protecting leukemia cells against drug-induced apoptosis. In cultured neurons, prevents amyloid beta protein-induced apoptosis by interrupting cell deat h process at a very early step. In glioblastoma cells, may function downstream of phosphatidylinositol 3-k inase (PI(3)K) and PDPK1 in the promotion of cell survival by phosphorylating and inhibiting the pro-apopt otic factor BAD. Can form a protein complex in non-small cell lung cancer (NSCLC) cells with PARD6A and ECT2 and regulate ECT2 oncogenic activity by phosphorylation, which in turn promotes transformed grow th and invasion. In response to nerve growth factor (NGF), acts downstream of SRC to phosphorylate and activate IRAK1, allowing the subsequent activation of NF-kappa-B and neuronal cell survival. Functions in the organization of the apical domain in epithelial cells by phosphorylating EZR. This step is crucial for ac tivation and normal distribution of EZR at the early stages of intestinal epithelial cell differentiation. Form s a protein complex with LLGL1 and PARD6B independently of PARD3 to regulate epithelial cell polarity. Pl ays a role in microtubule dynamics in the early secretory pathway through interaction with RAB2A and G APDH and recruitment to vesicular tubular clusters (VTCs). In human coronary artery endothelial cells (HC AEC), is activated by saturated fatty acids and mediates lipid-induced apoptosis. Involved in early synapti c long term potentiation phase in CA1 hippocampal cells and short term memory formation (By similarity) Calcium- and diacylglycerol-independent serine/threonine-protein kinase that functions in phosphatidylin ositol 3-kinase (PI3K) pathway and mitogen-activated protein (MAP) kinase cascade, and is involved in NF -kappa-B activation, mitogenic signaling, cell proliferation, cell polarity, inflammatory response and maint enance of long-term potentiation (LTP). Upon lipopolysaccharide (LPS) treatment in macrophages, or follo wing mitogenic stimuli, functions downstream of PI3K to activate MAP2K1/MEK1-MAPK1/ERK2 signaling ca scade independently of RAF1 activation. Required for insulin-dependent activation of AKT3, but may funct ion as an adapter rather than a direct activator. Upon insulin treatment may act as a downstream effector of PI3K and contribute to the activation of translocation of the glucose transporter SLC2A4/GLUT4 and su bsequent glucose transport in adipocytes. In EGF-induced cells, binds and activates MAP2K5/MEK5-MAPK 7/ERK5 independently of its kinase activity and can activate JUN promoter through MEF2C. Through bindi ng with SQSTM1/p62, functions in interleukin-1 signaling and activation of NF-kappa-B with the specific a dapters RIPK1 and TRAF6. Participates in TNF-dependent transactivation of NF-kappa-B by phosphorylatin g and activating IKBKB kinase, which in turn leads to the degradation of NF-kappa-B inhibitors. In migrati ng astrocytes, forms a cytoplasmic complex with PARD6A and is recruited by CDC42 to function in the est

	ablishment of cell polarity along with the microtubule motor and dynein. In association with FEZ1, stimulates neuronal differentiation in PC12 cells. In the inflammatory response, is required for the T-helper 2 (Th2) differentiation process, including interleukin production, efficient activation of JAK1 and the subsequent phosphorylation and nuclear translocation of STAT6. May be involved in development of allergic airway inflammation (asthma), a process dependent on Th2 immune response. In the NF-kappa-B-mediated inflammatory response, can relieve SETD6-dependent repression of NF-kappa-B target genes by phosphorylating the RELA subunit at 'Ser-311'. Phosphorylates VAMP2 in vitro (PubMed:17313651). Phosphorylates and activates LRRK1, which phosphorylates RAB proteins involved in intracellular trafficking (PubMed:36040231)
基因ID	5582, 5584, 5590
基因名	PRKCG, PRKCI, PRKCZ
Swiss	P05129 (https://www.uniprot.org/uniprotkb/P05129/entry), P41743 (https://www.uniprot.org/uniprotkb/P41743/entry), Q05513 (https://www.uniprot.org/uniprotkb/Q05513/entry)
别名	Phospho-PKC zeta/lambda (Thr410/Thr412) (YD32134),Phospho-PKC zeta/lambda (Thr410/Thr412) (YD32134) Rabbit mAb,PRKCG,PRKCI,PRKCZ,Atypical protein kinase C-lambda/iota,nPKC-iota,nPKC-zeta,PKCG,DXS1179E,PKC2

产品验证







实验步骤