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Datasheet for ABIN6257417 anti-PKC gamma antibody (Internal Region)





Overview

Quantity:	100 µL
Target:	PKC gamma (PRKCG)
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKC gamma antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human PKC gamma, corresponding to a region within the internal amino acids.
Isotype:	lgG
Specificity:	PKC gamma Antibody detects endogenous levels of total PKC gamma.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

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PKC gamma (PRKCG)

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Background: Description: Calcium-activated, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase that plays diverse roles in neuronal cells and eye tissues, a as regulation of the neuronal receptors GRIA/GLUR4 and GRIN1/NMDAR1, modulation of receptors and neuronal functions related to sensitivity to opiates, pain and alcohol, mediat synaptic function and cell survival after ischemia, and inhibition of gap junction activity after oxidative stress. Binds and phosphorylates GRIA/GLUR4 glutamate receptor and regulate function by increasing plasma membrane-associated GRIA4 expression. In primary cerebe neurons treated with the agonist 3,5-dihyidroxyphenylglycine, functions downstream of the metabotropic glutamate receptor GRM5/MGLUR6 and phosphorylates GRIN1/NMDAR1 receptor which plays a key role in synaptic plasticity, synaptogenesis, excitotoxicity, memo acquisition and learning. May be involved in 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 activation in the spinal cord, and may be critical for the development and/or maintenance of morphine-induced chang nociceptive processing. Plays a role in neuropathic pain mechanisms and contributes to the maintenance of the allodynia pain produced by peripheral inflammation. Plays an importar in initial sensitivity and tolerance to ethanol, by mediating the behavioral effects of ethanol well as the effects of this drug on the GABA(A) receptors. During and after cerebral ischem modulate neurotransmission and cell survival in synaptic membranes, and is involved in in induced on hibition of necrosis, an important mechanism for minimizing isohere in phase resetting of the cerebral cortex clock (By similarity).	Alternative Name:	PRKCG (PRKCG Products)
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ARNTL/BMAL1 by interfering with its ubiquitination, thus suppressing its degradation, resu		
in phase resetting of the cerebral cortex clock (By similarity).		
		Gene: PRKCG
Molecular Weight: 75 kDa		

Target Details

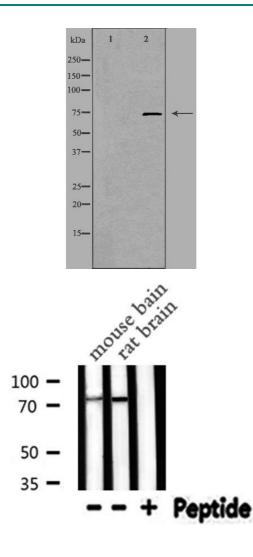
Gene ID:	5582
UniProt:	P05129
Pathways:	WNT Signaling, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Thyroid Hormone
	Synthesis, Myometrial Relaxation and Contraction, G-protein mediated Events, Positive
	Regulation of Response to DNA Damage Stimulus, Interaction of EGFR with phospholipase C-
	gamma, Thromboxane A2 Receptor Signaling, VEGF Signaling

Application Details

Application Notes:	WB 1:500-1:1000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months



Western Blotting

Image 1. Western blot analysis of extracts from A549 cells, using PRKCG antibody.The lane on the left is treated with the antigen-specific peptide.

Western Blotting

Image 2. Western blot analysis of PRKCG expression in various lysates

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