

产品名称: PKA β cat Rabbit Polyclonal Antibody
产品货号: APRab16187



产品概述 (Summary)

产品名称 (Production Name)	PKA β cat Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,IHC,ICC/IF,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	PRKACB
别名 (Alternative Names)	PRKACB; cAMP-dependent protein kinase catalytic subunit beta; PKA C-beta
基因 ID (Gene ID)	5567.0
蛋白 ID (SwissProt ID)	P22694.The antiserum was produced against synthesized peptide derived from human KAPCB. AA range:291-340

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	53kDa

研究背景 (Background)

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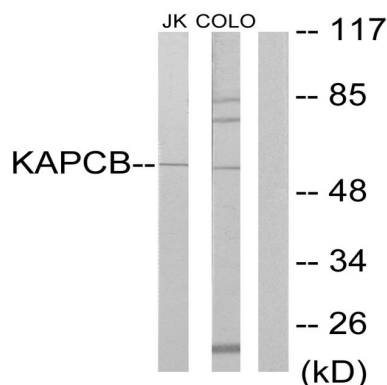
The protein encoded by this gene is a member of the serine/threonine protein kinase family. The encoded protein is a catalytic subunit of cAMP (cyclic AMP)-dependent protein kinase, which mediates signalling through cAMP. cAMP signaling is important to a number of processes, including cell proliferation and differentiation. Multiple alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2014], catalytic activity: ATP + a protein = ADP + a phosphoprotein., cofactor: Magnesium., enzyme regulation: Activated by cAMP., function: Mediates cAMP-dependent signaling triggered by receptor binding to GPCRs. PKA activation regulates diverse cellular processes such as cell proliferation, the cell cycle, differentiation and regulation of microtubule dynamics, chromatin condensation and decondensation, nuclear envelope disassembly and reassembly, as well as regulation of intracellular transport mechanisms and ion flux., PTM: Asn-3 is partially deaminated to Asp giving rise to 2 major isoelectric variants, called CB and CA respectively., similarity: Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. cAMP subfamily., similarity: Contains 1 AGC-kinase C-terminal domain., similarity: Contains 1 protein kinase domain., subcellular location: Translocates into the nucleus (monomeric catalytic subunit) (By similarity). The inactive holoenzyme is found in the cytoplasm., subunit: A number of inactive tetrameric holoenzymes are produced by the combination of homo- or heterodimers of the different regulatory subunits associated with two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits., tissue specificity: Isoform 1 is most abundant in the brain, with low level expression in kidney. Isoform 2 is predominantly expressed in thymus, spleen and kidney. Isoforms 3 and 4 are only expressed in the brain.,

研究领域 (Research Area)

MAPK_ERK_Growth; MAPK_G_Protein; Calcium; Chemokine; Oocyte

meiosis; Apoptosis_Inhibition; Apoptosis_Mitochondrial; Apoptosis_Overview; Vascular smooth muscle contraction; WNT; WNT-T
CELLHedgehog; Gap junction; Long-term potentiation; Olfactory transduction; Taste transduction; Insulin_Receptor; GnRH; Progesterone-mediated oocyte maturation; Melanogenesis; Prion diseases; Vibrio cholerae infection; Dilated cardiomyopathy;

图片 (Image Data)



Western blot analysis of lysates from Jurkat and COLO205 cells, using KAPCB Antibody. The lane on the right is blocked with the synthesized peptide.

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注意事项 (Note)

For research use only .