

产品名称: PKA α / β cat Rabbit Polyclonal Antibody
产品货号: AP Rab16185



产品概述 (Summary)

产品名称 (Production Name)	PKA α / 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)	PRKACA/PRKACB PRKACA; PKACA; cAMP-dependent protein kinase catalytic subunit alpha; PKA C-alpha; PRKACB; cAMP-dependent protein kinase catalytic subunit beta; PKA C-beta
别名 (Alternative Names)	
基因 ID (Gene ID)	5566/5567
蛋白 ID (SwissProt ID)	P17612/P22694.The antiserum was produced against synthesized peptide derived from human KAPC A/B. AA range:1-50

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
蛋白分子量 (Molecular Weight)	38kDa

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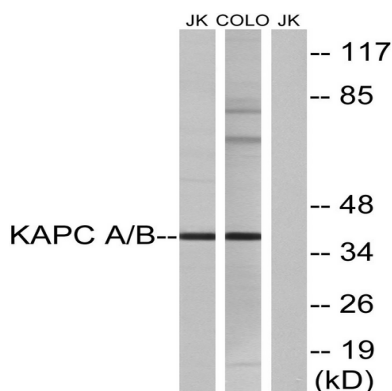
研究背景 (Background)

This gene encodes one of the catalytic subunits of protein kinase A, which exists as a tetrameric holoenzyme with two regulatory subunits and two catalytic subunits, in its inactive form. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. cAMP-dependent phosphorylation of proteins by protein kinase A is important to many cellular processes, including differentiation, proliferation, and apoptosis. Constitutive activation of this gene caused either by somatic mutations, or genomic duplications of regions that include this gene, have been associated with hyperplasias and adenomas of the adrenal cortex and are linked to corticotropin-independent Cushing's syndrome. Alternately, catalytic activity: ATP + a protein = ADP + a phosphoprotein., enzyme regulation: Activated by cAMP., function: Phosphorylates a large number of substrates in the cytoplasm and the nucleus., 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 2 is sperm specific.,

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 CELL; Hedgehog; Gap junction; Long-term potentiation; Olfactory transduction; Taste transduction; Insulin_Receptor; GnRH; Progesterone-mediated oocyte maturation; Melanogenesis; Prion diseases; Vibrio cholerae infection; Dilated cardiomyopathy;

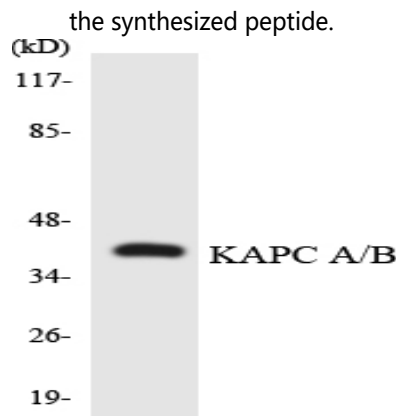
图片 (Image Data)



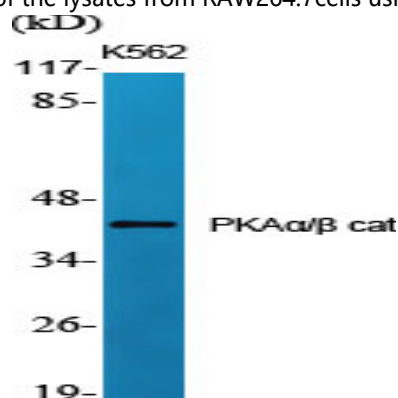
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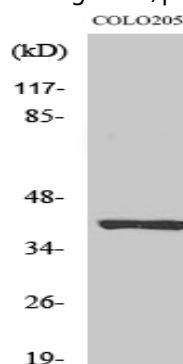
Western blot analysis of lysates from COLO and Jurkat cells, using KAPC A/B Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from RAW264.7 cells using KAPC A/B antibody.



Western Blot analysis of various cells using PKA α/β cat Polyclonal Antibody diluted at 1: 1000



Western Blot analysis of Jurkat cells using PKA α/β cat Polyclonal Antibody diluted at 1: 1000

注意事项 (Note)

For research use only .