

PRKACA (PT0438R) PT® Rabbit mAb

Catalog No :	YM8278
Reactivity :	Human; Mouse; Rat;
Applications :	WB;IHC;IF;IP;ELISA
Target :	РКА
Fields :	>>Endocrine resistance;>>MAPK signaling pathway;>>Ras signaling pathway;>>Calcium signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>Oocyte meiosis;>>Autophagy - animal;>>Longevity regulating pathway;>>Longevity regulating pathway - multiple species;>>Adrenergic signaling in cardiomyocytes;>>Vascular smooth muscle contraction;>>Wnt signaling pathway;>>Hedgehog signaling pathway;>>Apelin signaling pathway;>>Tight junction;>>Gap junction;>>Platelet activation;>>Circadian entrainment;>>Thermogenesis;>>Long-term potentiation;>>Retrograde endocannabinoid signaling;>>Glutamatergic synapse;>>Cholinergic synapse;>>Serotonergic synapse;>>GABAergic synapse;>>Dopaminergic synapse;>>Olfactory transduction;>>Taste transduction;>>Inflammatory mediator regulation of TRP channels;>>Insulin signaling pathway;>>Insulin secretion;>>GnRH signaling pathway;>>Ovarian steroidogenesis;>>Progesterone-mediated oocyte maturation;>>Estrogen signaling pathway;>>Melanogenesis;>>Thyroid hormo
Gene Name :	PRKACA
Protein Name :	cAMP-dependent protein kinase catalytic subunit alpha
Human Gene Id :	5566
Human Swiss Prot No :	P17612
Mouse Gene Id :	18747
Mouse Swiss Prot No :	P05132
Rat Swiss Prot No :	P27791
Specificity :	endogenous

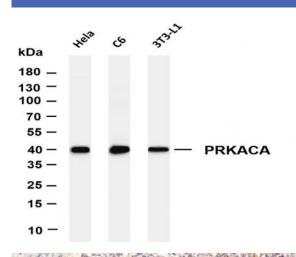


Best tools for Immunolog	
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Monoclonal, rabbit, IgG, Kappa
Dilution :	IHC 1:2000-1:10000;WB 1:1000-1:5000;IF 1:200-1:1000;ELISA
Dilution .	1:5000-1:20000;IP 1:50-1:200;
	1.0000 1.20000;11 1.00 1.200;
Duvitientien	Dratain A
Purification :	Protein A
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	40kD
Observed Band :	40kD
Cell Pathway :	MAPK ERK Growth;MAPK G Protein;Calcium;Chemokine;Oocyte meiosis;Ap
Och r athway .	optosis Inhibition;Apoptosis Mitochondrial;Apoptosis Overview;Vascular
	smooth muscle contraction;WNT;WNT-T CELLHedgehog;Gap junction;L
Pookaround	This gene encodes one of the catalytic subunits of protein kinase A, which exists
Background :	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. Altern
Function :	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 ca
	Cytoplasm, Membrane
	Cytopiasiii, inemprane



Beet roole for infinitionog	
Бирозывания : Location :	Isoform 1 is ubiquitous. Isoform 2 is sperm-specific and is enriched in pachytene spermatocytes but is not detected in round spermatids.
Tag :	hot,recombinant
Sort :	12733
No4 :	1
Host :	Rabbit
Modifications :	Unmodified

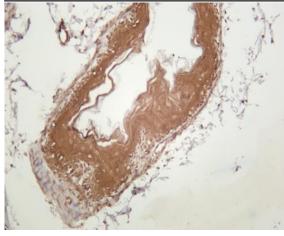
Products Images



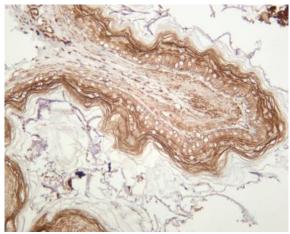
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PRKACA (PT0438R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Hela Lane 2: C6 Lane 3: 3T3-L1 Predicted band size: 40kDa Observed band size: 40kDa

Human thyroid carcinoma was stained with anti-PRKACA (PT0438R) rabbit antibody





Mouse stomach was stained with anti-PRKACA (PT0438R) rabbit antibody



Rat stomach was stained with anti-PRKACA (PT0438R) rabbit antibody