

PKAα/β cat rabbit pAb

Cat No.:ES3220

For research use only

Overview

Product Name	ΡΚΑα/β cat rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000.
	Immunohistochemistry: 1/100 - 1/300.
	Immunofluorescence: 1/200 - 1/1000. ELISA:
	1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized
	peptide derived from human KAPC A/B. AA
	range:1-50
Specificity	PKAα/β cat Polyclonal Antibody detects endogenous
	levels of PKAα/β cat protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and
	0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	cAMP-dependent protein kinase catalytic subunit
	alpha/beta
Gene Name	PRKACA/PRKACB
Cellular localization	Cytoplasm. Cell membrane. Nucleus .
	Mitochondrion . Membrane ; Lipid-anchor .
	Translocates into the nucleus (monomeric catalytic
	subunit). The inactive holoenzyme is found in the
	cytoplasm. Distributed throughout the cytoplasm in
	meiotically incompetent oocytes. Associated to
	mitochondrion as meiotic competence is acquired.
	Aggregates around the germinal vesicles (GV) at the
	immature GV stage oocytes (By similarity).
	Colocalizes with HSF1 in nuclear stress bodies (nSBs)
	upon heat shock (PubMed:21085490); [Isoform 2]:
	Cell projection, cilium, flagellum . Cytoplasmic
	vesicle, secretory vesicle, acrosome . Expressed in
	the midpiece region of the sperm flagellum
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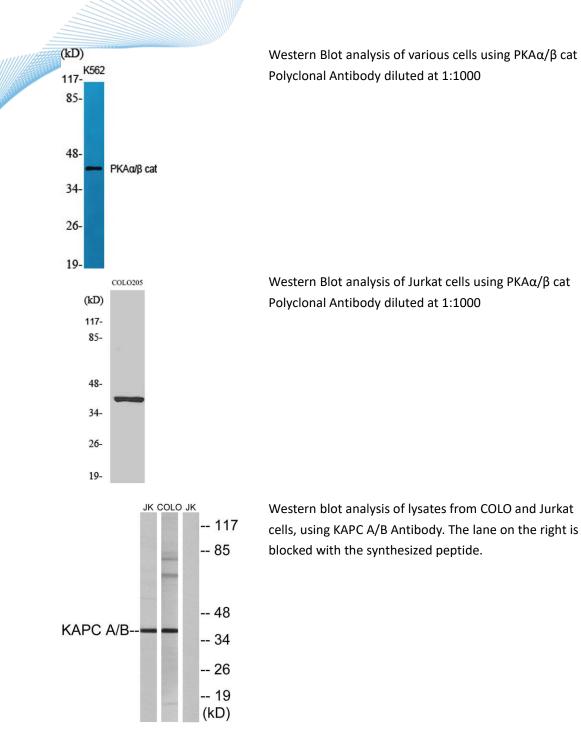
(PubMed:10906071). Colocalizes with MROH2B and TCP11 on the acrosome and tail regions in round spermatids and spermatozoa regardle Purification The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Clonality Polyclonal Concentration 1 mg/ml **Observed band** 38kD Human Gene ID 5566/5567 P17612/P22694 Human Swiss-Prot Number Alternative Names PRKACA; PKACA; cAMP-dependent protein kinase catalytic subunit alpha; PKA C-alpha; PRKACB; cAMP-dependent protein kinase catalytic subunit beta; PKA C-beta 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. Altern



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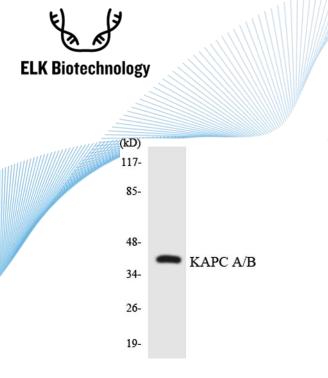






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Western blot analysis of the lysates from RAW264.7cells using KAPC A/B antibody.



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