KAPC A/B Antibody

Catalog No: #33696

Package Size: #33696-1 50ul #33696-2 100ul



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Product Name KAPC A/B Antibody Host Species Rabit Clonality Polyclonal Purfication The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. Applications WB Species Reactivity Hu Ms Rt Specificity The antibody detects endogenous levels of total KAPC A/B protein. Immunogen Type Poltide Immunogen Type Synthesized petitide derived from N-terminal of human KAPC A/B. Target Name KAPC A/B Other Names EC 2.7.1.11; KAPCA; PKA C-alpha; PKA-alpha; PKACA Accession No. Sinse-Prot: P17612NCBI Gene ID: 5566/5567 Uniprot P17612 Specific MW Sikd Occenertation Jom/m Specific MW Sikd Soroge Storogeno.	Description	
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and 50% glycerol.	Concentration	1.0mg/ml
	Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide
Storage Store at -20°C		and 50% glycerol.
	Storage	Store at -20°C

Application Details

Western blotting: 1:500~1:3000

Images



Western blot analysis of extracts from Jurkat cells and COLO cells, using KAPC A/B antibody #33696.

Phosphorylates a large number of substrates in the cytoplasm and the nucleus. Regulates the abundance of compartmentalized pools of its regulatory subunits through phosphorylation of PJA2 which binds and ubiquitinates these subunits, leading to their subsequent proteolysis. Phosphorylates CDC25B, ABL1, NFKB1, CLDN3, PSMC5/RPT6, PJA2, RYR2, RORA and VASP. RORA is activated by phosphorylation. Required for glucose-mediated adipogenic differentiation increase and osteogenic differentiation inhibition from osteoblasts. Involved in the regulation of platelets in response to thrombin and collagen; maintains circulating platelets in a resting state by phosphorylating proteins in numerous platelet inhibitory pathways when in complex with NF-kappa-B (NFKB1 and NFKB2) and I-kappa-B-alpha (NFKBIA), but thrombin and collagen disrupt these complexes and free active PRKACA stimulates platelets and leads to platelet aggregation by phosphorylating VASP. Prevents the antiproliferative and anti-invasive effects of alpha-difluoromethylornithine in breast cancer cells when activated. RYR2 channel activity is potentiated by phosphorylation in presence of luminal Ca2+, leading to reduced amplitude and increased frequency of store overload-induced Ca2+ release (SOICR) characterized by an increased rate of Ca2+ release and propagation velocity of spontaneous Ca2+ waves, despite reduced wave amplitude and resting cytosolic Ca2+. PSMC5/RPT6 activation by phosphorylation stimulates proteasome. Negatively regulates tight junctions (TJs) in ovarian cancer cells via CLDN3 phosphorylation. NFKB1 phosphorylation promotes NF-kappa-B p50-p50 DNA binding. Involved in embryonic development by down-regulating the Hedgehog (Hh) signaling pathway that determines embryo pattern formation and morphogenesis. Prevents meiosis resumption in prophase-arrested oocytes via CDC25B inactivation by phosphorylation. May also regulate rapid eye movement (REM) sleep in the pedunculopontine tegmental (PPT). Phosphorylates APOBEC3G and AICDA. Isoform 2 phosphorylates and activates ABL1 in sperm flagellum to promote spermatozoa capacitation. Maldonado F., Nucleic Acids Res. 16:8189-8190(1988).

Desseyn J.-L., Proc. Natl. Acad. Sci. U.S.A. 97:6433-6438(2000).

Ficarro S., J. Biol. Chem. 278:11579-11589(2003).

Note: This product is for in vitro research use only