

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

CAMP PROTEIN KINASE CATALYTIC SUBUNIT RABBIT PAB

Cat.#: N225097

Product Name: Anti-cAMP Protein Kinase Catalytic Subunit Rabbit pAb **Synonyms:** PRKACA; PKACA; cAMP-dependent protein kinase catalytic subunit alpha; PKA C-alpha; PRKACB; cAMP-dependent protein kinase

catalytic subunit beta; PKA C-beta **UNIPROT ID:** P17612/P22694/P22612

Background: PRKACA (protein kinase cAMP-activated catalytic subunit alpha) 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. Alternative splicing results in multiple transcript variants encoding different isoforms. Tissue-specific isoforms that differ at the N-terminus have been described, and these isoforms may differ in the post-translational modifications that occur at the N-terminus of some isoforms.

Immunogen: The antiserum was produced against synthesized peptide derived from human PKA alpha/beta CAT. AA range:166-215

Applications: WB,IHC-F,IHC-P,ICC/IF,ELISA

Recommended Dilutions: WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200

ELISA: 1/10000

Host Species: Rabbit

Clonality: Rabbit Polyclonal

Clone ID: -

MW: Calculated MW: 40 kDa; Observed MW: 40 kDa

Isotype: IgG

Purification: Affinity Purified

Species Reactivity: Human, Mouse, Rat

Conjugation: Unconjugated

Modification: Unmodified

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC APPLICATIONS



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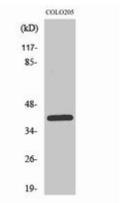
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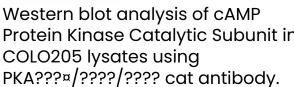
Constituents: PBS (without Mg2+ and Ca2+), pH 7.3 containing 50%

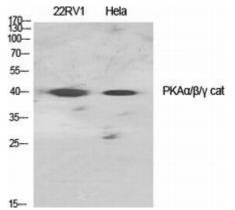
glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Signal Transduction

Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing







Western blot analysis of cAMP Protein Kinase Catalytic Subunit in Protein Kinase Catalytic Subunit in various lysates using cAMP Protein Kinase Catalytic Subunit antibody.