

# Product Name: cAMP Protein Kinase Catalytic Subunit Rabbit Polyclonal Antibody Catalog #: APRab00544

For research use only.

#### **Summary**

**Description** Rabbit polyclonal Antibody

**Host** Rabbit

ApplicationWB,IHC,ICC/IF,ELISAReactivityHuman,Mouse,RatConjugationUnconjugatedModificationUnmodified

**Isotype** IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% sodium azide, pH

7.3.

**Purification** Affinity Purification

#### **Application**

**Buffer** 

**Dilution Ratio** WB 1:500-1:1000,IHC 1:50-1:100,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000

Molecular Weight Calculated MW: 40 kDa; Observed MW: 40 kDa

### **Antigen Information**

**Alternative Names** 

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

**Gene ID** 5566/5567/5568

**SwissProt ID** P17612/P22694/P22612

The antiserum was produced against synthesized peptide derived from human PKA Immunogen

alpha/beta CAT. AA range:166-215

## **Background**

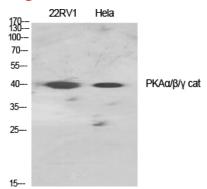


PRKACA (protein kinase cAMP-activated catalytic subunit alpha) encodes one of the catalytic subunits of protein kinase A, which exists as a tetrameric holoenzyme with two regulatory subunits and two catalytic subunits, in its inactive form. cAMP causes the dissociation of the inactive holoenzyme into 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.

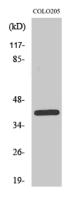
#### Research Area

Signal Transduction

#### **Image Data**



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



Western blot analysis of cAMP Protein Kinase Catalytic Subunit in COLO205 lysates using PKA $\alpha/\beta/\gamma$  cat antibody.

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