

Product Name: Phospho-PKA alpha/beta/gamma (Thr197) Rabbit Polyclonal Antibody Catalog #: APRab00837

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

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

Isotype IgG

Clonality Polyclonal
Form Liquid
Concentration 1mg/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 Chromatography

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

Gene Name PRKACA/PRKACB/PRKACG

PRKACA; PKACA; cAMP-dependent protein kinase catalytic subunit alpha; PKA C-alpha;

Alternative Names PRKACB; cAMP-dependent protein kinase catalytic subunit beta; PKA C-beta; PRKACG;

cAMP-dependent protein kinase catalytic subunit gamma; PKA C-gamma

Gene ID 5566/5567

SwissProt ID P17612/P22694/P22612

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

around the phosphorylation site of Thr197. AA range:166-215

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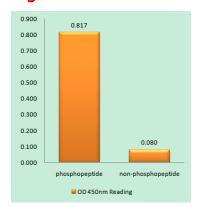
Background

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.

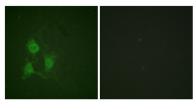
Research Area

Signal Transduction

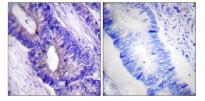
Image Data



EnzymeLinked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phospho-peptide (Phospho-left) and NonPhospho-peptide (Phospho-right), using PKA CAT (Phospho-Thr19antibody



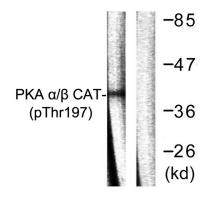
Immunofluorescence analysis of Phospho-PKA alpha/beta/gamma (Thr197) in A549 using Phospho-PKA alpha/beta/gamma (Thr197) antibody. The picture on the right is blocked with the Phospho- peptide.



Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using Phospho-PKA alpha/beta/gamma (Thr197) antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval. Sample with blocking peptide on the right.

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Western blot analysis of Phospho-PKA alpha/beta/gamma (Thr197) in mouse brain lysates using Phospho-PKA alpha/beta/gamma (Thr197) antibody. The lane on the right is blocked with the synthesized peptide.