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Phospho-PKA C-alpha (PRKACA)-T197 Rabbit pAb

Catalog No.: AP0557 **3 Publications**

Basic Information

Observed MW
40kDa

Calculated MW
41kDa

Category
Primary antibody

Applications
WB,ELISA

Cross-Reactivity
Human, Mouse, Rat

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. 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.

Recommended Dilutions

WB	1:500 - 1:2000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5566

Swiss Prot
P17612

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
CAFD1; PKACA; PPNAD4; Phospho-PKA C-alpha (PRKACA)-T197

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Product Information

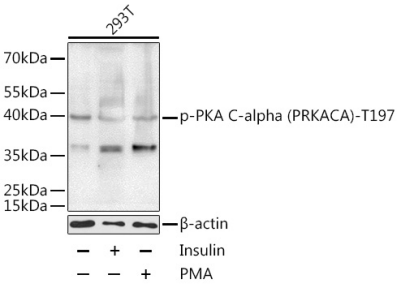
Source
Rabbit

Isotype
IgG

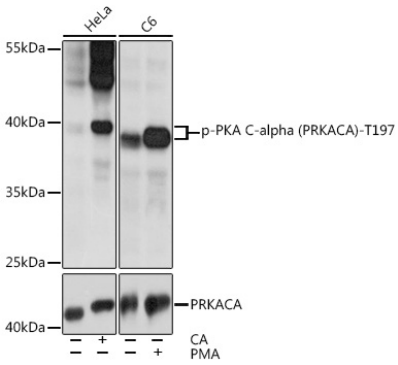
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Validation Data



Western blot analysis of lysates from 293T cells, using Phospho-PKA C-alpha (PRKACA)-T197 Rabbit pAb (AP0557) at 1:1000 dilution. 293T cells were treated with Insulin (100nM) for 10 minutes or treated with PMA/TPA (200nM) for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% BSA.



Western blot analysis of various lysates using Phospho-PKA C-alpha (PRKACA)-T197 pAb (AP0557) at 1:2000 dilution or PKA C-alpha (PRKACA) antibody (A18603). HeLa cells were treated with Calyculin A (100 nM) at 37℃ for 30 minutes after serum-starvation overnight. C6 cells were treated with PMA/TPA (200 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.