ABclonal www.abclonal.com

[KD Validated] PKA C-alpha Rabbit mAb

Catalog No.: A28372 Recombinant

Basic Information

Observed MW

41 kDa

Calculated MW

41 kDa/40 kDa

Category

Primary antibody

Applications

WB,IF/ICC,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC77658

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 1:24000 - 1:80000

IF/ICC 1:200 - 1:300

IHC-P 1:500 - 1:2000

ELISA Recommended starting

concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay requirements. For highratio antibody dilutions (≥1:10000)□a sequential dilution method is strongly recommended to ensure measurement

accuracy.

Immunogen Information

Gene ID Swiss Prot 5566 P17612

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

CAFD1; PKACA; PPNAD4

Product Information

SourceIsotypePurificationRabbitIgGAffinity purification

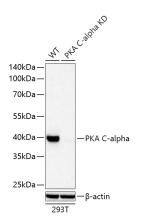
Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

Contact

| 2 | 400-999-6126 |
|-----------|---------------------------|
| \bowtie | cn.market@abclonal.com.cr |
| • | www.abclonal.com.cr |



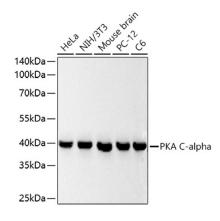
Western blot analysis of lysates from wild type (WT) and PKA C-alpha knockdown (KD) 293T cells using [KD Validated] PKA C-alpha Rabbit mAb (A28372) at 1:40000 dilution incubated overnight at 4° C. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 μg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90 s.



Western blot analysis of various lysates using [KD Validated] PKA C-alpha Rabbit mAb (A28372) at 1:40000 dilution incubated overnight at 4° C.

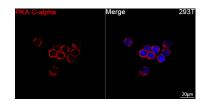
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

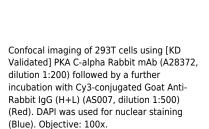
Lysates/proteins: 25 µg per lane.

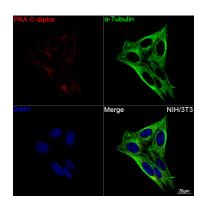
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90 s.



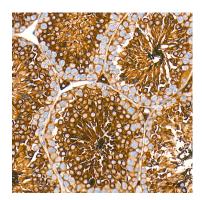




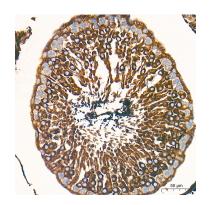
Confocal imaging of NIH/3T3 cells using [KD Validated] PKA C-alpha Rabbit mAb (A28372, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo \$ 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffinembedded Human tonsil tissue using [KD Validated] PKA C-alpha Rabbit mAb (A28372) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Mouse testis tissue using [KD Validated] PKA C-alpha Rabbit mAb (A28372) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffinembedded Rat testis tissue using [KD Validated] PKA C-alpha Rabbit mAb (A28372) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining