

Product Data Sheet: PRKACA

Cat. No: MAB-94617

Size: 100 ug
Clone: PR10
Concentration: 1mg/ml

Host: Ms lgG

Immunogen: Recombinant protein of human PRKACA.

Reactivity: Hu, Ms, Rt

Applications: Western Blot: 1:500 – 1:2000 Immunofluorescence: 1:50 – 1:200

Immunofluorescence: 1:50 - 1:20

Molecular Weight: 40kDa **Purification:** Aff. Pur.

Synonyms: PRKACA; PKACA; PPNAD4; cAMP-dependent protein kinase catalytic subunit alpha

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

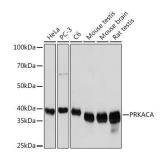
transcript variants encoding different isoforms. Tissue-specific isoforms that differ at the N-terminus have been described, and these isoforms may differ in the post-

translational modifications that occur at the N-terminus of some isoforms.

Form: Liquid

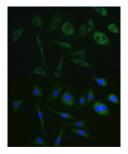
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

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



Western blot analysis of extracts of various cell lines, using PRKACA antibody at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-



Immunofluorescence analysis of BALB-3T3 cells using PRKACA Mouse Monoclonal Antibody



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Mouse IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit. Exposure time: 1s.

at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

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