

Mouse anti-Human PKA C-alpha (PRKACA) Monoclonal Antibody | anti-PRKACA antibody

[KO Validated] PKA C-alpha (PRKACA) Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282646	Mouse	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

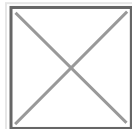
PRODUCT SYNONYMS

PKA C-alpha (PRKACA); Monoclonal Antibody; [KO Validated] PKA C-alpha (PRKACA) Mouse mAb; CAFD1; PKACA; PPNAD4; A); anti-PRKACA antibody

PRODUCT SPECIFICATIONS

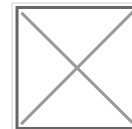
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2B, Kappa
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Applicable Applications for anti-PRKACA antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	Recombinant protein of human [KD Validated] PKA C-alpha (PRKACA).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



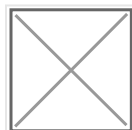
IF (Immunofluorescence)

Immunofluorescence analysis of MCF7 cells using [KD Validated] PKA C-alpha (PRKACA) Mouse mAb (AAA282646) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



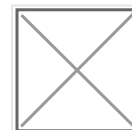
IF (Immunofluorescence)

Immunofluorescence analysis of BALB-3T3 cells using [KD Validated] PKA C-alpha (PRKACA) Mouse mAb (AAA282646) at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



WB (Western Blot)

Western blot analysis of lysates from wild type(WT) and PKA C-alpha (PRKACA) knockdown (KD) 293T(KD) cells, using [KO Validated] PKA C-alpha (PRKACA) Mouse mAb (AAA282646) at 1:10000 dilution.Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 20s.



WB (Western Blot)

Western blot analysis of various lysates, using [KO Validated] PKA C-alpha (PRKACA) Mouse mAb (AAA282646) at 1:10000 dilution.Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 20s.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKACA antibody	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.
Product Categories/Family for anti-PRKACA antibody	Protein phosphorylation; Cancer; Signal Transduction; G protein signaling; G-Protein-Coupled Receptors Signaling to MAPK Erk; Kinase; Serine threonine kinases; MAPK-Erk Signaling Pathway; Cell Biology Developmental Biology; Apoptosis; Mitochondrial Contro

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506055
NCBI GeneID	5566
NCBI Accession #	NP_002721.1
NCBI GenBank Nucleotide #	NM_002730.3
UniProt Accession #	P17612; Q32P54; Q9H2Y0; Q9NRB4; Q9NRH9
Molecular Weight	Calculated MW: 41kDa Observed MW: 40kDa
UniProt Protein Name	cAMP-dependent protein kinase catalytic subunit alpha
UniProt Gene Name	PRKACA
UniProt Synonym Gene Names	PKACA; PKA C-alpha
UniProt Entry Name	KAPCA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/pka-c-alpha-prkaca-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/282646>