

Rabbit PKA alpha Polyclonal Antibody | anti-PKA alpha antibody

PKA alpha antibody

CATALOG # AAA107582	HOST Rabbit	APPLICATIONS Western Blot, Immunocytochemistry, Immunofluorescence
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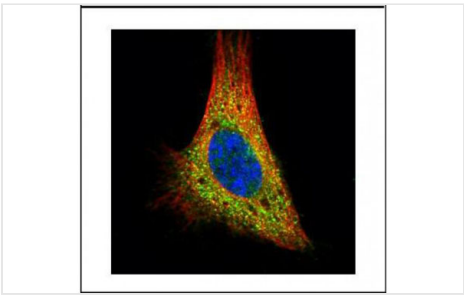
PRODUCT SYNONYMS

PKA alpha; Polyclonal Antibody; PKA alpha antibody; Polyclonal PKA alpha; Anti-PKA alpha; protein kinase A catalytic subunit; PKA C-alpha; PRKACA; MGC48865; cAMP-dependent protein kinase catalytic subunit alpha isoform 1; MGC102831; cAMP-dependent protein kinase catalytic subunit alpha; PKACA; anti-PKA alpha antibody

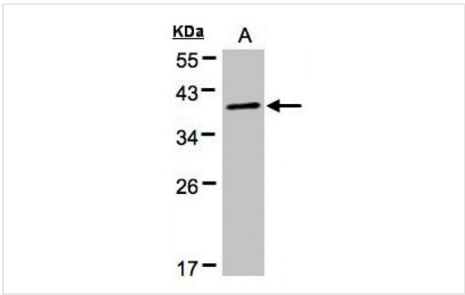
PRODUCT SPECIFICATIONS

Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	PKA alpha antibody was purified by antigen-affinity chromatography
Form/Format	Supplied as a concentrated solution containing 0.1M Tris, 0.1M Glycine, 10% Glycerol (pH 7.0). 0.01% Thimerosal was added as a preservative.
Concentration	1 mg/ml (varies by lot)
Sequence Length	351
Applicable Applications for anti-PKA alpha antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence)
Biological Significance	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. 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. The protein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic subunit of cAMP-dependent protein kinase.
Cross-Reactivity	Human, Mouse
Immunogen	PKA alpha antibody was raised in rabbit using a recombinant fragment corresponding to a region within amino acids 1 and 351 of
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

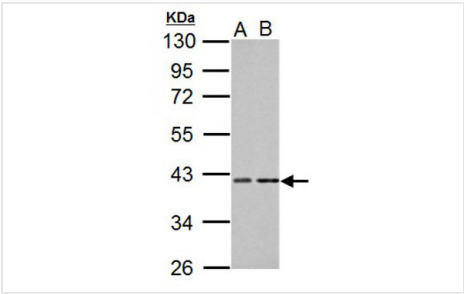
IMAGES



IF (Immunofluorescence)
Confocal immunofluorescence analysis (Olympus FV10i) of paraformaldehyde-fixed HeLa, using PKA alpha antibody (Green) at 1:500 dilution. Alpha-tubulin filaments were labeled with (Red) at 1:2000.



WB (Western Blot)
Western blot analysis of 30 ug of whole cell lysate (A:HeLa S3) using a 12 % SDS PAGE gel and PKA alpha antibody at a dilution of 1:500



WB (Western Blot)
Western blot analysis of 30 ug of whole cell lysate (A: NIH-3T3; B: C2C12) using a 10 % SDS PAGE gel and PKA alpha antibody at a dilution of 1:1000

ADDITIONAL INFORMATION

Related Product Information for anti-PKA alpha antibody	Affinity purified Rabbit polyclonal PKA alpha antibody
Product Categories/Family for anti-PKA alpha antibody	Signal Transduction; Purified Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	126722698
NCBI GeneID	100008815
NCBI Accession #	NP_001075578.1
NCBI GenBank Nucleotide #	NM_001082109.1
Molecular Weight	41 kDa
NCBI Official Full Name	cAMP-dependent protein kinase catalytic subunit alpha
NCBI Official Symbol	PRKACA
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit alpha

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.