

Rabbit PKA C alpha Polyclonal Antibody | anti-PRKACA antibody

PKA C alpha Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA29926	Rabbit	Human, Mouse, Rat	Immunocytochemistry, Immunohistochemistry, Flow Cytometry, Functional Assay

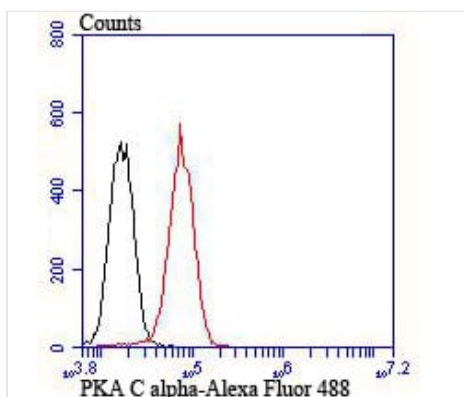
PRODUCT SYNONYMS

PKA C alpha; Polyclonal Antibody; PKA C alpha Antibody; cAMP dependent protein kinase beta catalytic subunit antibody; cAMP dependent protein kinase alpha catalytic subunit antibody; cAMP dependent protein kinase catalytic subunit alpha antibody; cAMP dependent protein kinase catalytic subunit beta antibody; PKA C alpha antibody; PKA C beta antibody; PKACA antibody; PKACB antibody; PRKACA antibody; PRKACB antibody; Protein kinase cAMP dependent catalytic alpha antibody; Protein kinase cAMP dependent catalytic beta antibody; anti-PRKACA antibody

PRODUCT SPECIFICATIONS

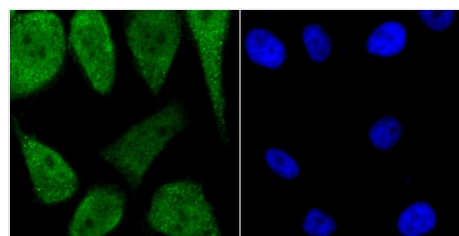
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Protein affinity purified
Form/Format	1*TBS (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-PRKACA antibody	ICC (Immunocytochemistry), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	IHC: 1:50-1:200 ICC: 1:50-1:200 FC/FACS: 1:50-1:100
Immunogen	Recombinant protein.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



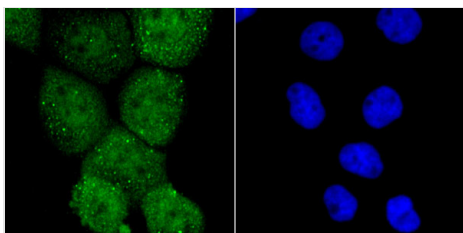
FCM (Flow Cytometry)

Flow cytometric analysis of PC-3M cells with PKA C-alpha antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).



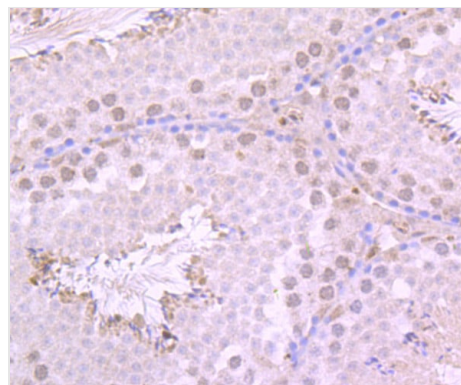
ICC (Immunocytochemistry)

ICC staining PKA C-alpha in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



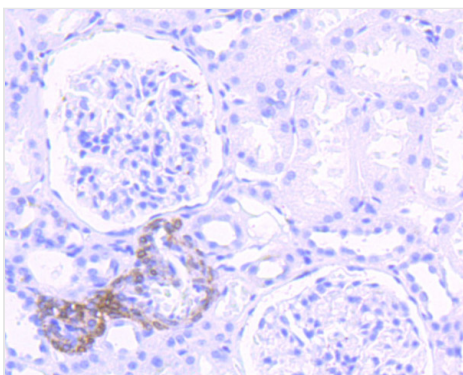
ICC (Immunocytochemistry)

ICC staining PKA C-alpha in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



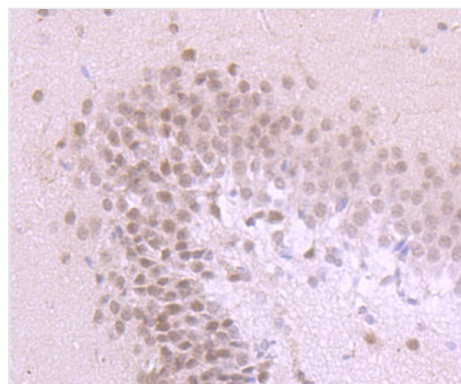
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-PKA C-alpha antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-PKA C-alpha antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-PKA C-alpha antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKACA antibody	The second messenger cyclic AMP (cAMP) mediates diverse cellular responses to external signals such as proliferation, ion transport, regulation of metabolism and gene transcription by activation of the cAMP-dependent protein kinase (cAPK or PKA). Activation of PKA occurs when cAMP binds to the two regulatory subunits of the tetrameric PKA holoenzyme resulting in release of active catalytic subunits. Three catalytic (C) subunits have been identified, designated Calpha, Cbeta and Cgamma, that each represent specific gene products. Calpha and Cbeta are closely related (93% amino acid sequence similarity), whereas Cgamma displays 83% and 79% similarity to Calpha and Cbeta, respectively. Activation of transcription upon elevation of cAMP levels results from translocation of PKA to the nucleus where it phosphorylates the transcription factor cAMP response element binding protein (CREB) on serine 133 which in turn leads to TFIIIB binding to TATA-box-binding protein TBP1, thus linking phospho-CREB to the pol II transcription initiation complex.
Product Categories/Family for anti-PRKACA antibody	Total protein Ab

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	351

NCBI Official Full Name	cAMP-dependent protein kinase catalytic subunit alpha isoform 1
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, catalytic, alpha
NCBI Official Symbol	PRKACA
NCBI Official Synonym Symbols	PKACA
NCBI Protein Information	cAMP-dependent protein kinase catalytic subunit alpha; PKA C-alpha; protein kinase A catalytic subunit; cAMP-dependent protein kinase catalytic subunit alpha, isoform 1
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://www.aaabiotech.com/polyclonal/pka-c-alpha-antibody-immunocytochemistry-immunohistochemistry-flow-cytometry-elisa/29926>