

Rabbit PKA R2 Monoclonal Antibody | anti-PRKAR2A antibody

PKA R2 (Phospho-S99) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA311011	Rabbit	Human, Mouse, Rat, Pig	Immunoprecipitation, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, Western Blot

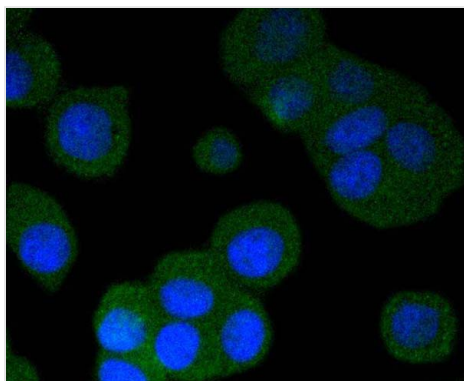
PRODUCT SYNONYMS

PKA R2; Monoclonal Antibody; PKA R2 (Phospho-S99) Antibody; cAMP dependent protein kinase regulatory subunit alpha 2 antibody; cAMP dependent protein kinase regulatory subunit RII alpha antibody; cAMP dependent protein kinase type II alpha regulatory chain antibody; cAMP dependent protein kinase type II alpha regulatory subunit antibody; cAMP-dependent protein kinase type II-alpha regulatory subunit antibody; KAP2 antibody; KAP2_HUMAN antibody; MGC3606 antibody; PKR 2 antibody; PKR2 antibody; PRKA R2 antibody; PRKAR 2 antibody; PRKAR2 antibody; PRKAR2A antibody; Protein kinase A RII alpha subunit antibody; Protein kinase cAMP dependent regulatory type II alpha antibody; anti-PRKAR2A antibody

PRODUCT SPECIFICATIONS

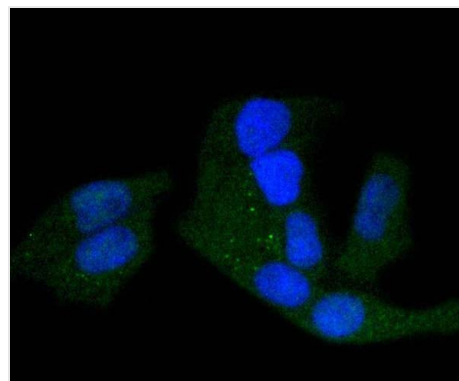
Host	Rabbit
Reactivity	Human, Mouse, Rat, Pig
Clonality	Monoclonal
Clone Number	SC54-04
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-PRKAR2A antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Synthetic phospho-peptide corresponding to residues surrounding Ser99 of human PKA R2
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



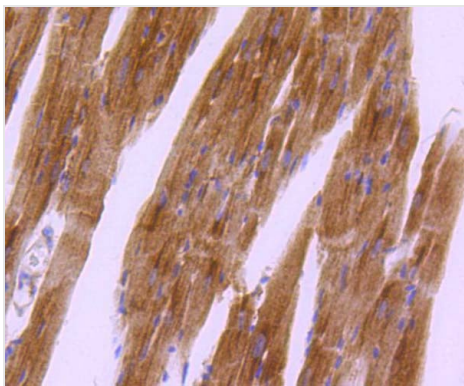
ICC (Immunocytochemistry)

ICC staining phospho-PKA R2 (S99) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



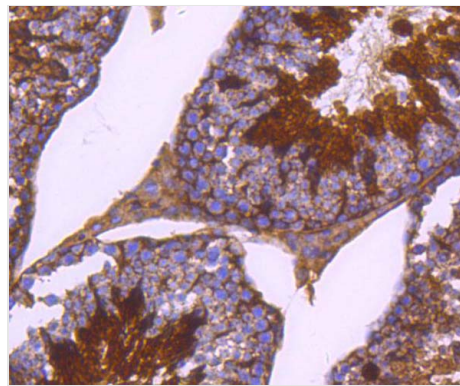
ICC (Immunocytochemistry)

ICC staining phospho-PKA R2 (S99) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



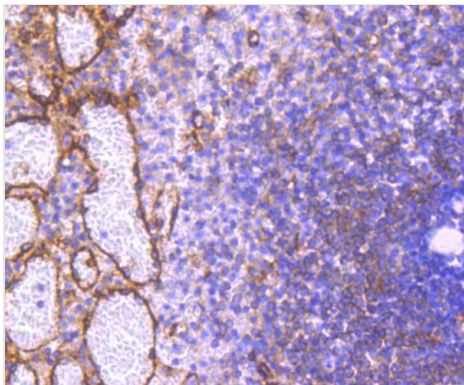
IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti- phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti- phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-PRKAR2A 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-PRKAR2A antibody	Phospho-specific Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758958
NCBI GeneID	5576
NCBI Accession #	NP_004148.1
NCBI GenBank Nucleotide #	NM_004157.2
UniProt Accession #	P13861 ; Q16823
Molecular Weight	45,518 Da

NCBI Official Full Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
NCBI Official Synonym Full Names	protein kinase, cAMP-dependent, regulatory, type II, alpha
NCBI Official Symbol	PRKAR2A
NCBI Official Synonym Symbols	PKR2; PRKAR2
NCBI Protein Information	cAMP-dependent protein kinase type II-alpha regulatory subunit; protein kinase A, RII-alpha subunit; cAMP-dependent protein kinase regulatory subunit RII alpha
UniProt Protein Name	cAMP-dependent protein kinase type II-alpha regulatory subunit
UniProt Gene Name	PRKAR2A
UniProt Synonym Gene Names	PKR2; PRKAR2
UniProt Entry Name	KAP2_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-r2-antibody-clone-sc54-04-immunoprecipitation-immunohistochemistry-immunofluorescence-immunocytochemistry-western-blot-elisa/311011>