Product Datasheet

Phospho-PKA R2 (S99) Rabbit mAb

Catalog No: #13379

Package Size: #13379-1 50ul #13379-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

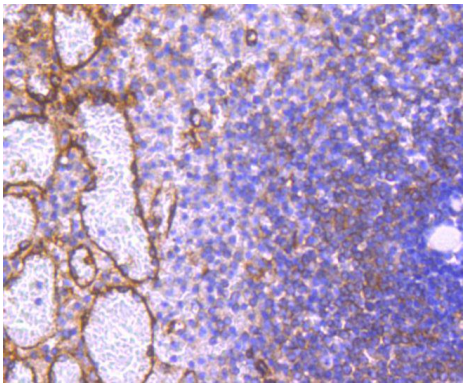
Description

Product Name	Phospho-PKA R2 (S99) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SC54-04
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu, Ms, Rt, Pig
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser99 of human PKA R2
Other Names	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
Accession No.	Swiss-Prot#:P13861
Uniprot	P13861
GeneID	5576;
Calculated MW	51 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

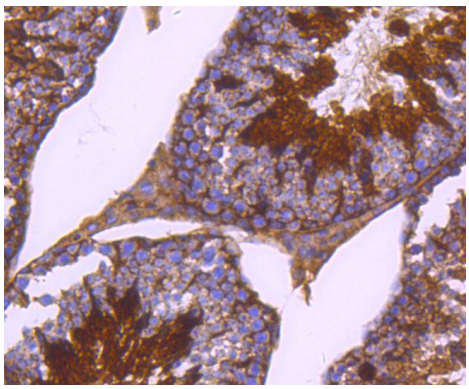
Application Details

WB: 1:500 IHC: 1:50-1:200ICC: 1:50-1:200

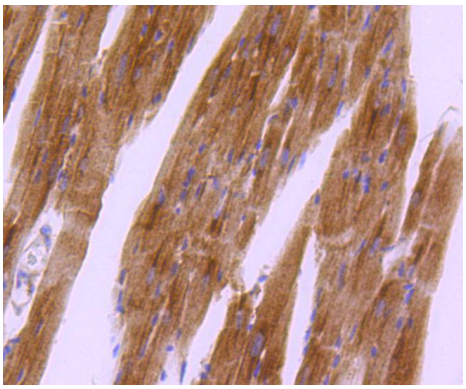
Images



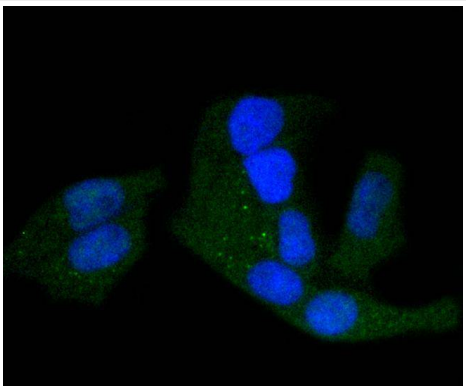
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti- phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.



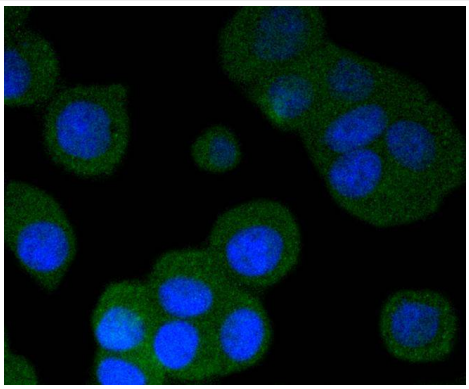
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti- phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.



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



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.



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.

Background

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 Cα, Cβ and Cγ, that each represent specific gene products. Cα and Cβ are closely related (93% amino acid sequence similarity), whereas Cγ displays 83% and 79% similarity to Cα and Cβ, 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 TFIIB binding to TATA-box-binding protein TBP1, thus linking phospho-CREB to the pol II transcription initiation complex.

References

Note: This product is for in vitro research use only