

Anti-Phospho-PRKAR2A (Ser99) Antibody (9R534)

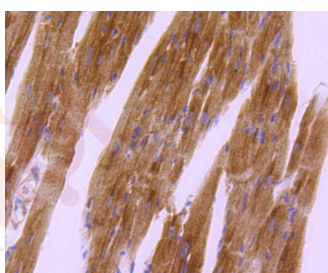
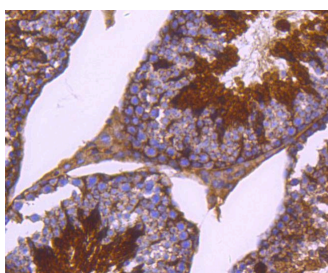
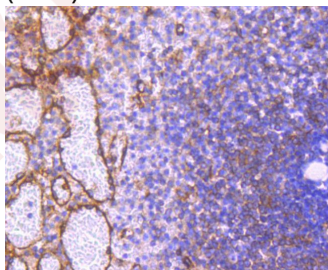
Product Details

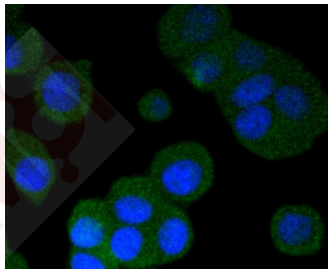
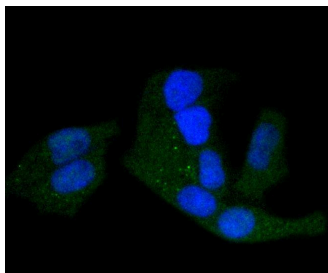
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat,Pig
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 51 kDa.
Clone:	9R534
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-phospho-PKA R2 (S99) antibody. Counter stained with hematoxylin.
4. 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.
5. 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.





Application: ICC/IF,IHC,IP,WB
Recommended WB: 1:500; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human PKA R2 around the phosphorylation site of Ser99
Antigen Species: Human
Uniprot ID: P13861
Synonyms: p-PRKAR2A (S99);p-PRKAR2A (Ser99);PRKAR2A (p-S99);PRKAR2A (p-Ser99)

Research 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 C α ;, C β ; and C γ ;, that each represent specific gene products. C α ; and C β ; are closely related (93% amino acid sequence similarity), whereas C γ ; displays 83% and 79% similarity to C α ; and C β ;, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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