PKA 2 beta (regulatory subunit) Rabbit mAb

Catalog No: #49527

Package Size: #49527-1 50ul #49527-2 100ul

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Support: tech@signalwayantibody.com

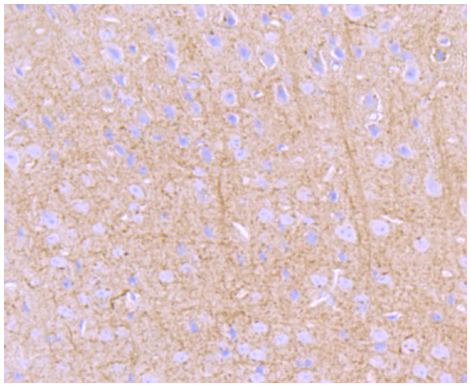
Description

Product Name	PKA 2 beta (regulatory subunit) Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JA11-69
Purification	ProA affinity purified
Applications	WB, IP, ICC/IF, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	AI451071 antibody AW061005 antibody cAMP dependent protein kinase type II beta regulatory chain antibody cAMP dependent protein kinase type II beta regulatory subunit antibody cAMP-dependent protein kinase type II-beta regulatory subunit antibody H RG363E19.2 antibody KAP3_HUMAN antibody MGC116401 antibody Pkarb2 antibody PRKAR 2 antibody PRKAR2 antibody PRKAR2B antibody Protein kinase cAMP dependent regulatory type II beta antibody RATDNA antibody RII beta antibody RII(beta) antibody RIIbeta antibody WUGSC:H RG363E19.2 antibody
Accession No.	Swiss-Prot#:P31323
Uniprot	P31323
GeneID	5577;
Calculated MW	46 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

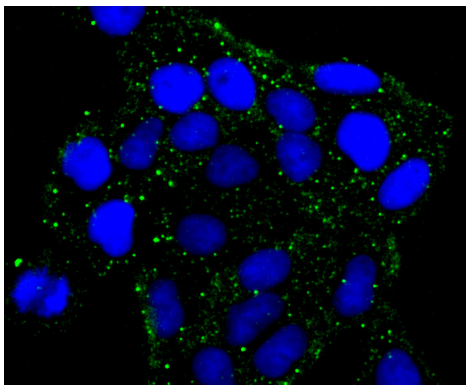
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

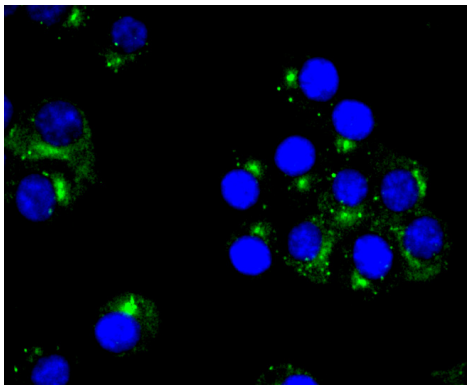
Images



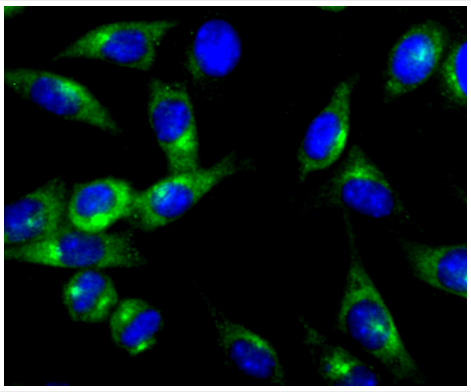
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti- PKA 2 beta (regulatory subunit) antibody. Counter stained with hematoxylin.



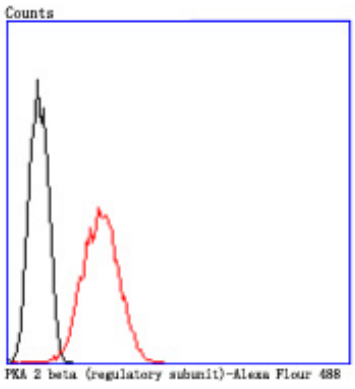
ICC staining PKA 2 beta (regulatory subunit) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PKA 2 beta (regulatory subunit) in N2A cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining PKA 2 beta (regulatory subunit) in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of N2A cells with PKA 2 beta (regulatory subunit) antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The second messenger cyclic AMP 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. One of several regulatory subunits, p-PKA IIβ reg (cAMP-dependent protein kinase type II-beta regulatory subunit), also known as PRKAR2B, is a 418 amino acid protein that is phosphorylated by the activated catalytic chain. p-PKA IIβ reg knockout mice exhibit diminished white adipose tissue and were protected against diet-induced obesity and fatty livers,as well as markedly reduced leptin mRNA. Also playing a role in the immune response, p-PKA IIβ reg suppresses CREB transcriptional activity and down-regulates IL-2 production in T-lymphocytes.

References

Note: This product is for in vitro research use only