Product Datasheet

Phospho-PP2A(Y307) Rabbit mAb

Catalog No: #13369

Package Size: #13369-1 50ul #13369-2 100ul

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

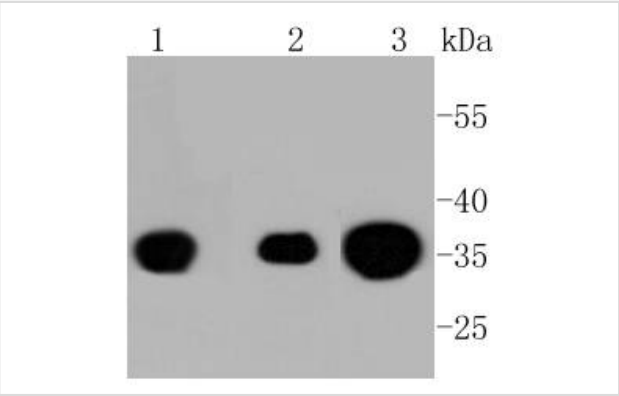
Description

Product Name	Phospho-PP2A(Y307) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	ST49-05
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr307 of human PP2A.
Other Names	PP2A A antibody PP2A alpha antibody PP2A B antibody PP2A beta antibody PP2A-alpha antibody PP2AA_HUMAN antibody PP2Ac antibody PP2CB antibody PPP2CA antibody PPP2CB antibody Protein phosphatase 2 catalytic subunit alpha isoform antibody Protein phosphatase 2 catalytic subunit beta isoform antibody Replication protein C antibody RP C antibody RP-C antibody Serine/threonine protein phosphatase 2A catalytic subunit alpha isoform antibody Serine/threonine protein phosphatase 2A catalytic subunit beta isoform antibody Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform antibody
Accession No.	Swiss-Prot#:P62714
Uniprot	P62714
GeneID	5516;
Calculated MW	35 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

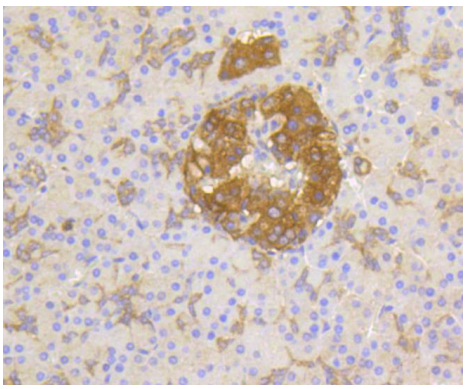
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:50-1:200

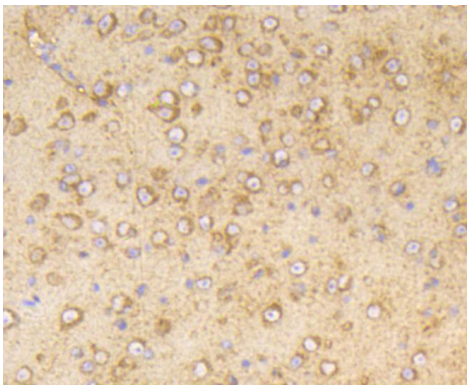
Images



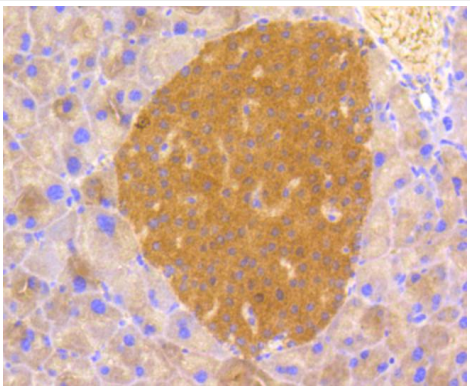
Western blot analysis of Phospho-PP2A(pY307) on different lysates using anti-Phospho-PP2A(pY307) antibody at 1/1,000 dilution. Positive control:
Lane 1: A431
Lane 2: F9
Lane 3: PC12



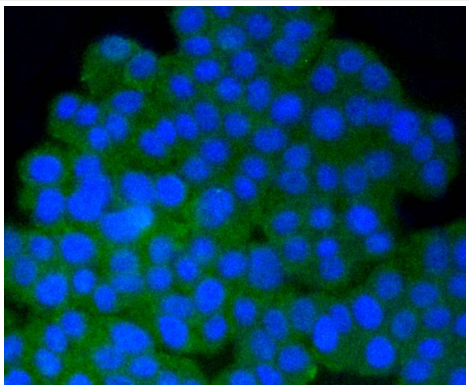
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-Phospho-PP2A(pY307) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-Phospho-PP2A(pY307) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-Phospho-PP2A(pY307) antibody. Counter stained with hematoxylin.



ICC staining Phospho-PP2A(pY307) in PC12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Protein phosphatase type 2A (PP2A) is an essential protein serine/threonine phosphatase that is conserved in all eukaryotes. PP2A is a key enzyme within various signal transduction pathways as it regulates fundamental cellular activities such as DNA replication, transcription, translation, metabolism, cell cycle progression, cell division, apoptosis and development. The core enzyme consists of catalytic C and regulatory A (or PR65) subunits, with each subunit represented by α and β isoforms. Additional regulatory subunits belong to four different families of unrelated proteins. Both the B (or PR55) and B' regulatory protein families contain α, β, γ and δ isoforms, with the B' family also including an ε protein. B'' family proteins include PR72, PR130, PR59 and PR48 isoforms, while striatin (PR110) and SG2NA (PR93) are both members of the B''' regulatory protein family. These B subunits competitively bind to a shared binding site on the core A subunit. This variable array of holoenzyme components, particularly

regulatory B subunits, allows PP2A to act in a diverse set of functions. PP2A function is regulated by expression, localization, holoenzyme composition and post-translational modification. Phosphorylation of PP2A at Tyr307 by Src occurs in response to EGF or insulin and results in a substantial reduction of PP2A activity. Reversible methylation on the carboxyl group of Leu309 of PP2A has been observed. Methylation alters the conformation of PP2A, as well as its localization and association with B regulatory subunits.

References

Note: This product is for in vitro research use only