



PP2A α / β Rabbit mAb

Catalog No	YP-rAb-17843
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,IP,ELISA
Gene Name	PPP2CA;PPP2CB
Protein Name	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform;PP2A-beta;PP2A-alpha;Replication protein C;RP-C;
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; IP 1:50-1:200; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	$\geq 90\%$
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	PP2A A ; PP2A alpha ; PP2A B ; PP2A beta ; PP2A-alpha ; PP2A-beta ; PP2AA_HUMAN ; PP2Aalpha ; PP2AB_HUMAN ; PP2Abeta ; PP2Ac ; PP2CA ; PP2Calpha ; PP2CB ; PPP2CA ; PPP2CB ; Protein phosphatase 2 catalytic subunit alpha isoform ; Protein phosphatase 2 catalytic subunit beta isoform ; Protein phosphatase type 2A catalytic subunit ; Replication protein C ; RP C ; RP-C ; RPC ; Serine/threonine protein phosphatase 2A catalytic subunit alpha isoform ; Serine/threonine protein phosphatase 2A catalytic subunit beta isoform ; Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform ;
Observed Band	36kD
Calculated Molecular Weight	36kD
Cell Pathway	Cytoplasm
Tissue Specificity	Fibroblast,Liver,Lung,Placenta,Testis,Uterus,baseline
Function	PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogen-stimulated S6 kinase, and MAP-2 kinase. Cooperates with SGOL2 to protect centromeric cohesin from separase-mediated cleavage in oocytes





specifically during meiosis I (By similarity). Can dephosphorylate SV40 large T antigen and p53/TP53. Dephosphorylates SV40 large T antigen, preferentially on serine residues 120, 123, 677, and perhaps 679. The C subunit was most active, followed by the AC form, which was more active than the ABC form, and activity of all three forms was strongly stimulated by manganese, and to a lesser extent by magnesium. Dephosphorylation by the AC form, but not C or ABC form is inhibited by small T antigen. Activates RAF1 by dephosphorylating it at 'Ser-259'.

Background

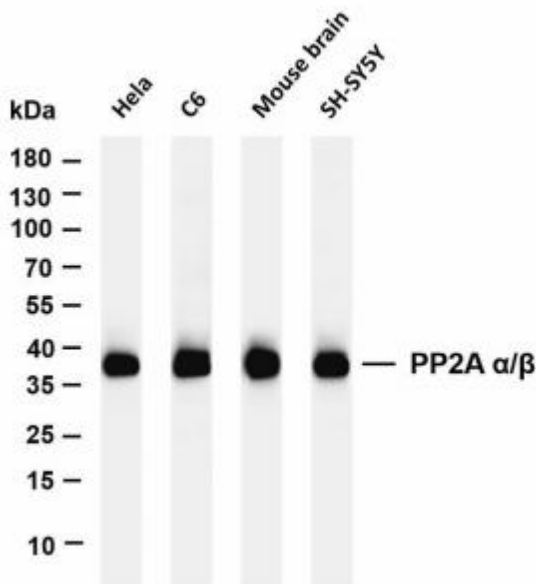
This gene encodes the phosphatase 2A catalytic subunit. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. This gene encodes an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008],

matters needing attention

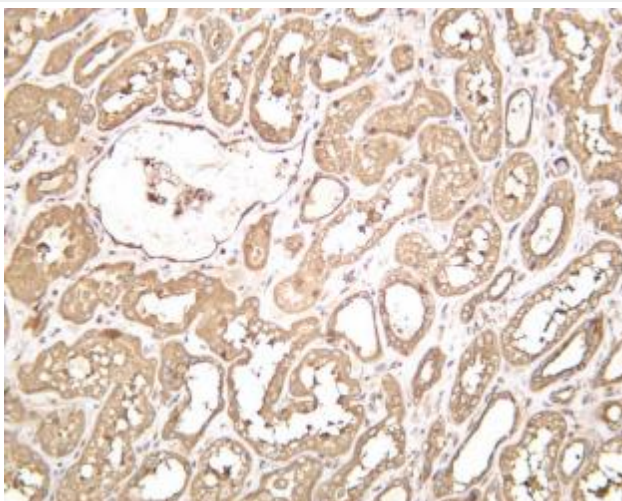
Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

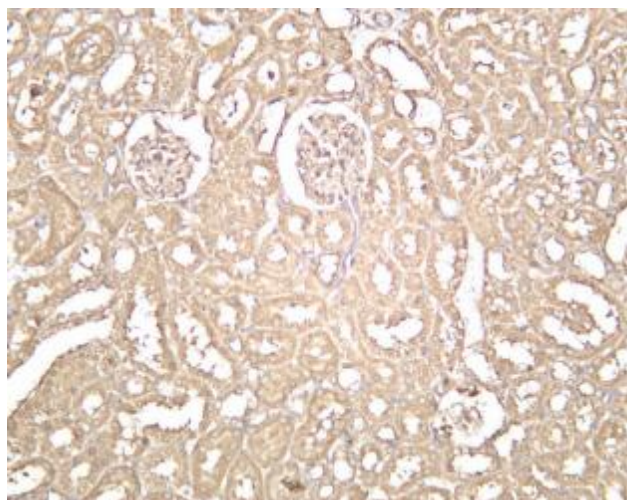


Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-PP2A α/β antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: C6 Lane 3: Mouse brain Lane 4: SH-SY5Y Predicted band size: 36kDa Observed band size: 36kDa

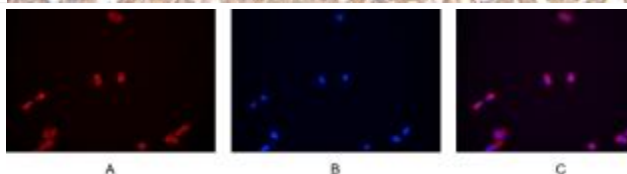


Human kidney was stained with anti-PP2A α/β rabbit antibody





Rat kidney was stained with anti-PP2A α/β rabbit antibody



Immunofluorescence analysis of HEK293. Picture A: PP2A α/β antibody (red). Picture B: DAPI (blue). Picture C: Merge of A+B

