Anti-PP2A alpha/beta Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013546

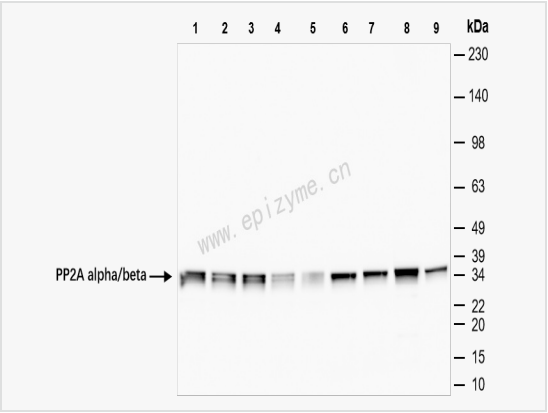
Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	45L80L68
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human alpha + beta PP2A
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PP2A alpha/beta Rabbit mAb [45L80L68] is for research use only and not for use in diagnostic or therapeutic procedures.

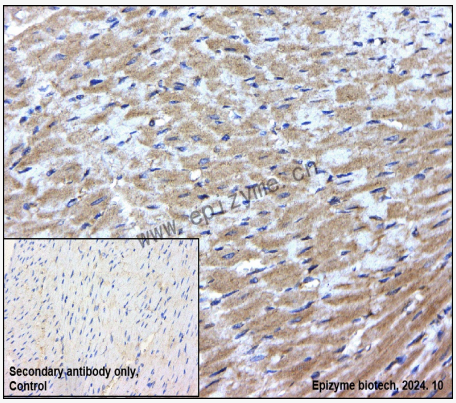
Protein Information

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, PP2A α/β.
Calculated MW	Calculated MW: 36 kDa; Observed MW: 36 kDa
Uniprot ID	P62714 , P67775
Gene ID	5516 , 5515
RRID	AB_3752610
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]
Cellular Location	Cytoplasm. Nucleus. Chromosome > centromere. Cytoplasm > cytoskeleton > spindle pole. In prometaphase cells, but not in anaphase cells, localizes at centromeres. During mitosis, also found at spindle poles. Centromeric localization requires the presence of SGOL2.

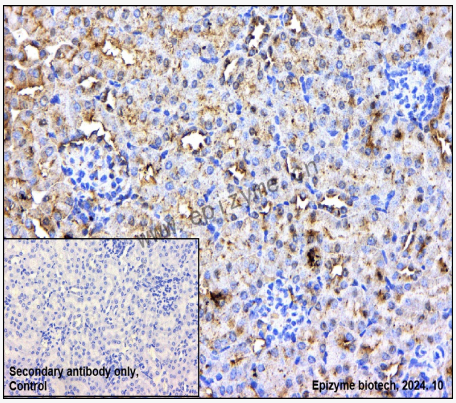
Validation Images



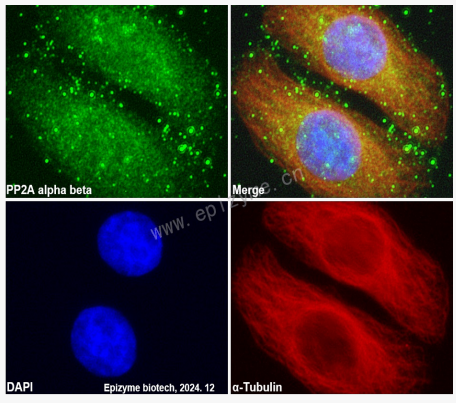
Western Blot - Anti-PP2A alpha/beta Rabbit mAb [45L80L68]
All lanes: R013546 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 6: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 7: Rat kidney whole tissue lysates
Lane 8: Rat muscle whole tissue lysates
Lane 9: Rat spleen whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 36 kDa
Observed band size: 36 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PP2A alpha/beta Rabbit mAb [45L80L68]
Sample: Paraformaldehyde-fixed, paraffin embedded rat heart tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013546 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PP2A alpha/beta Rabbit mAb [45L80L68]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013546 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-PP2A alpha/beta Rabbit mAb [45L80L68]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R013546 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).