

Anti-PP2A alpha/beta Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

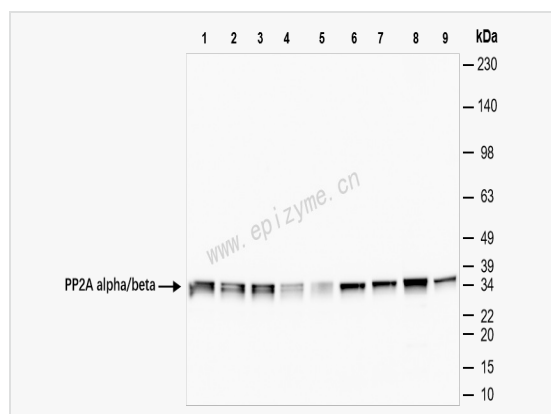
Catalog # R013546

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 PP2A alpha
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	P67775
Gene ID	5515
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.



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

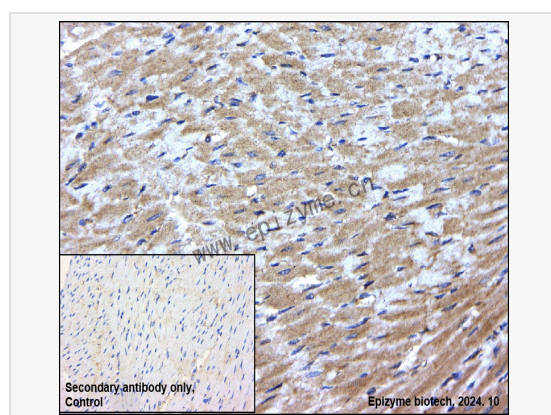
Lysates/proteins at 10 µg per lane.

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

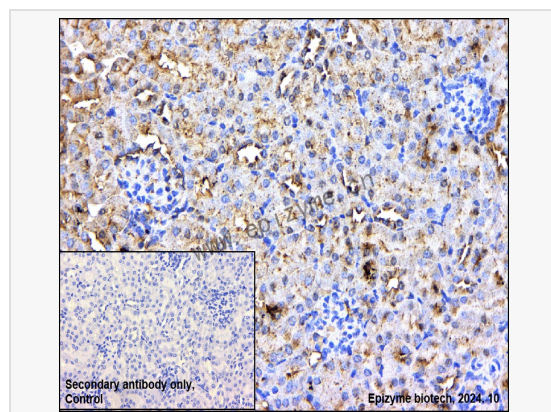
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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

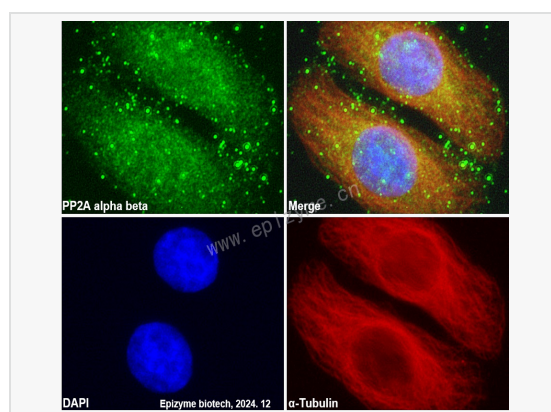
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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).