

## Anti-PP2A alpha/beta Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

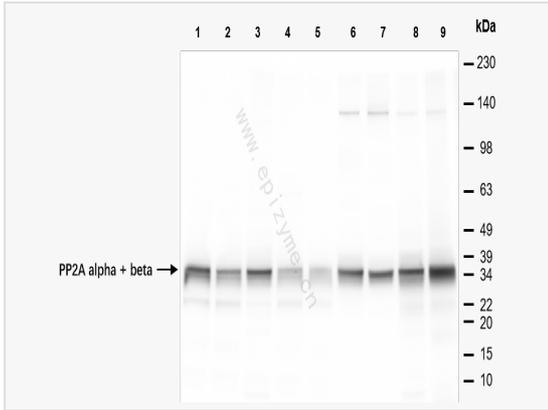
Catalog # R014645

### Product Information

Application	IHC-P/IF (Tissue-P), WB, ELISA
Reactivity	Rat, Human, Mouse
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.	95Q18P88
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 [95Q18P88] 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.
Calculated MW	Calculated MW: 36 kDa; Observed MW: 36 kDa
Uniprot ID	P62714, P67775
Gene ID	5516, 5515
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 $\alpha$ and $\beta$ isoforms.
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 [95Q18P88]

All lanes: R014645 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: C2C12 (Mouse myoblasts 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: Rat heart whole tissue lysates

Lane 7: Rat muscle whole tissue lysates

Lane 8: Rat spleen whole tissue lysates

Lane 9: Mouse small intestine whole tissue lysates

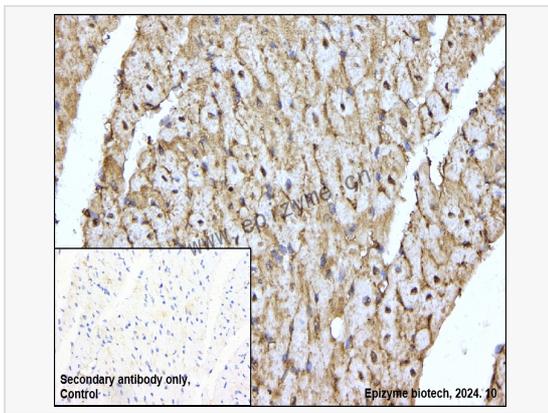
Lysates/proteins at 10 µg per lane.

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 [95Q18P88]

Sample: Paraformaldehyde-fixed, paraffin embedded rat heart tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014645 at 1:200 dilution

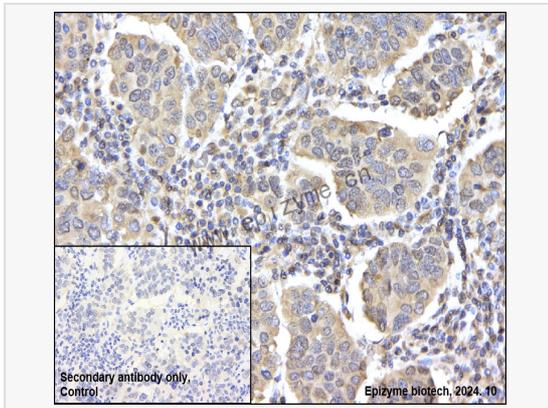
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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 [95Q18P88]

Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014645 at 1:200 dilution

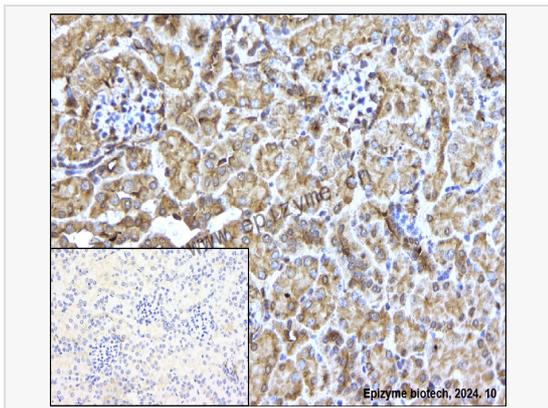
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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 [95Q18P88]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014645 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.