

Anti-Phospho-PP2A alpha (Tyr307) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

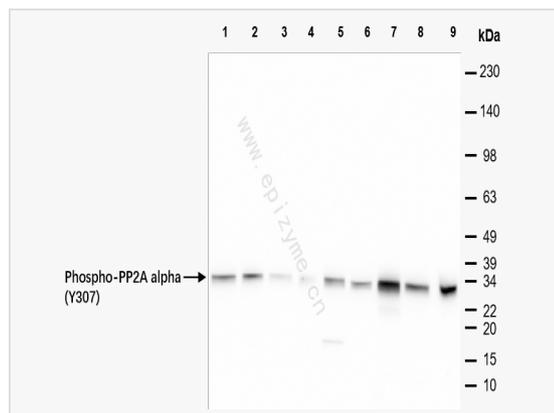
Catalog # R014157

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	57M05O52
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-PP2A alpha (Y307)
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-Phospho-PP2A alpha (Tyr307) Rabbit mAb [57M05O52] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	PP2A alpha, PP2A-alpha, PP2AA_HUMAN, PP2Aalpha, PP2Ac, PP2CA, PP2Calpha, PPP2CA, Protein phosphatase 2 (formerly 2A) catalytic subunit alpha isoform, Protein phosphatase 2 catalytic subunit alpha isoform, Protein phosphatase 2, catalytic subunit, alpha isozyme, Protein phosphatase 2A catalytic subunit, alpha isoform, Replication protein C, RP C, RP-C, RPC, Serine/threonine protein phosphatase 2A catalytic subunit alpha isoform, Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform.
Calculated MW	Calculated MW: 36 kDa; Observed MW: 35 kDa
Uniprot ID	P67775
Gene ID	5515
Background	PP2A is the major phosphatase for microtubule-associated proteins (MAPs). 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. Activates RAF1 by dephosphorylating it at 'Ser-259'.
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-Phospho-PP2A alpha (Tyr307) Rabbit mAb [57M05O52]

All lanes: R014157 at 1:1,000 dilution

Lane 1: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 2: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 3: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 5: Rat heart whole tissue lysates

Lane 6: Rat muscle whole tissue lysates

Lane 7: Rat spleen whole tissue lysates

Lane 8: Mouse small intestine whole tissue lysates

Lane 9: Mouse kidney whole tissue lysates

Lysates/proteins at 10 μ g 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: 35 kDa

Developed using the ECL technique (Cat. No. SQ201).