Anti-Phospho-PP2A alpha (Tyr307) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014157

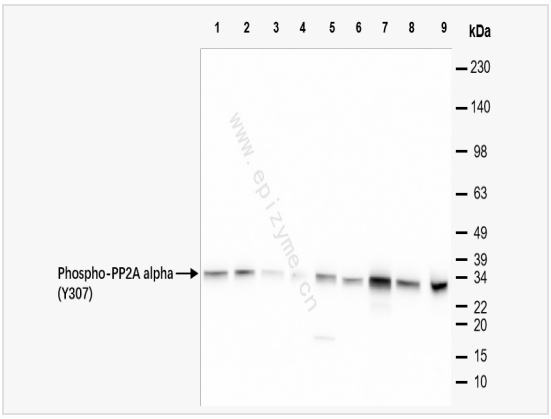
Product Information

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.

Validation Images



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 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: 35 kDa
Developed using the ECL technique (Cat. No. SQ201).