

KD-Validated Anti-PPP4C Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2094

Product Information

Application	WB
Primary Accession	P60510
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Names	24GB13365
Calculated MW	35080
Gene Name	PPP4C
Aliases	PPP4C; Protein Phosphatase 4 Catalytic Subunit; PPX; PP4; Serine/Threonine-Protein Phosphatase 4 Catalytic Subunit; Protein Phosphatase 4 (Formerly X), Catalytic Subunit; Protein Phosphatase X, Catalytic Subunit; EC 3.1.3.16; PP-X; PP4C; PPP4; Epididymis Secretory Sperm Binding Protein; Protein Phosphatase 4, Catalytic Subunit; Protein Phosphatase X; PPH3; Pp4
Immunogen	Recombinant protein of human PPP4C

Additional Information

Gene ID	5531
Other Names	Serine/threonine-protein phosphatase 4 catalytic subunit, PP4C, Pp4, 3.1.3.16, Protein phosphatase X, PP-X, PPP4C, PPP4, PPX

Protein Information

Name	PPP4C
Synonyms	PPP4, PPX
Function	Protein phosphatase that is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. The PPP4C-PPP4R1 PP4 complex may play a role in dephosphorylation and regulation of HDAC3. The PPP4C-PPP4R2- PPP4R3A PP4 complex specifically dephosphorylates H2AX phosphorylated on Ser-140 (gamma-H2AX) generated during DNA replication and required for DNA double strand break repair. Dephosphorylates NDEL1 at CDK1 phosphorylation sites and negatively regulates CDK1 activity in interphase (By similarity). In response to DNA damage, catalyzes RPA2 dephosphorylation, an essential step for DNA repair since it allows the efficient RPA2-mediated recruitment of RAD51 to

chromatin.

Cellular Location

Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

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