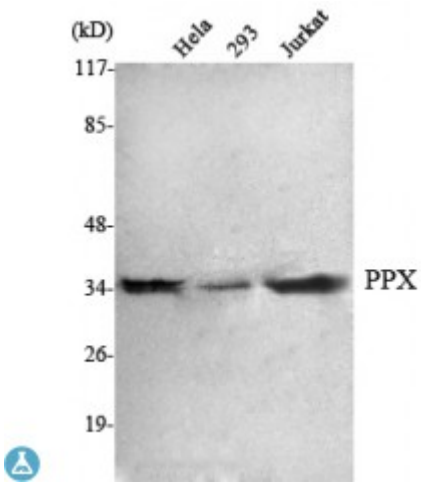
Anti-PPX antibody



Description	Mouse monoclonal to PPX.

Model	STJ98539
Host	Mouse
Reactivity	Bovine, Canine, Human, Mouse, Rat, Zebrafish
Applications	IF, IHC, WB
Immunogen	Purified recombinant human PPX protein fragments expressed in E.coli.
Gene ID	5531
Gene Symbol	PPP4C
Dilution range	WB 1:1000-1:2000IHC 1:500-1:1000IF 1:100-1:500
Specificity	PPX Monoclonal Antibody detects endogenous levels of PPX protein.
Purification	Affinity purification
Note	For Research Use Only (RUO).
Protein Name	Serine/threonine-protein phosphatase 4 catalytic subunit PP4C Pp4 Protein phosphatase X PP-X
Clonality	Monoclonal
Conjugation	Unconjugated
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Concentration	1 mg/ml

Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:9319OMIM:602035
Alternative Names	Serine/threonine-protein phosphatase 4 catalytic subunit PP4C Pp4 Protein phosphatase X PP-X
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 H2AFX phosphorylated on Ser-140 (gamma-H2AFX) 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 . 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 Localization	Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome.
Post-translational Modifications	Methylation at the C-terminal Leu-307 is critical for interactions with regulatory subunits and functions in DNA repair.