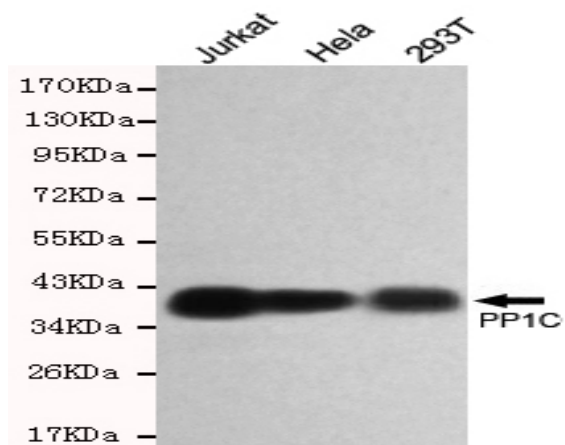


PP1C mouse mAb

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| Catalog No : | YM1267 |
| Reactivity : | Human |
| Applications : | WB |
| Target : | PP1C |
| Fields : | >>mRNA surveillance pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Oocyte meiosis;>>Cellular senescence;>>Adrenergic signaling in cardiomyocytes;>>Vascular smooth muscle contraction;>>Hippo signaling pathway;>>Focal adhesion;>>Platelet activation;>>Long-term potentiation;>>Dopaminergic synapse;>>Inflammatory mediator regulation of TRP channels;>>Regulation of actin cytoskeleton;>>Insulin signaling pathway;>>Oxytocin signaling pathway;>>Insulin resistance;>>Amphetamine addiction;>>Alcoholism;>>Herpes simplex virus 1 infection;>>Proteoglycans in cancer;>>Diabetic cardiomyopathy |
| Gene Name : | ppp1cc |
| Human Gene Id : | 5501 |
| Human Swiss Prot No : | P36873 |
| Mouse Swiss Prot No : | P63087 |
| Immunogen : | Purified recombinant human PP1C protein fragments expressed in E.coli. |
| Specificity : | This antibody detects endogenous levels of PP1C and does not cross-react with related proteins. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Monoclonal, Mouse |
| Dilution : | wb 1:500 |
| Purification : | The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen. |

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| Concentration : | 1 mg/ml |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Observed Band : | 38kD |
| Cell Pathway : | Oocyte meiosis;Vascular smooth muscle contraction;Focal adhesion;Long-term potentiation;Regulates Actin and Cytoskeleton;Insulin_Receptor; |
| Background : | The protein encoded by this gene belongs to the protein phosphatase family, PP1 subfamily. PP1 is an ubiquitous serine/threonine phosphatase that regulates many cellular processes, including cell division. It is expressed in mammalian cells as three closely related isoforms, alpha, beta/delta and gamma, which have distinct localization patterns. This gene encodes the gamma isozyme. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011], |
| Function : | catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,cofactor:Binds 1 iron ion per subunit.,cofactor:Binds 1 manganese ion per subunit.,enzyme regulation:The phosphatase activity of the PPP1R15A-PP1 complex toward EIF2S1 is specifically inhibited by Salubrinal, a drug that protects cells from endoplasmic reticulum stress.,function:Protein phosphatase 1 (PP1) is essential for cell division, and participates in the regulation of glycogen metabolism, muscle contractility and protein synthesis. Involved in regulation of ionic conductances and long-term synaptic plasticity. May play an important role in dephosphorylating substrates such as the postsynaptic density-associated Ca(2+)/calmodulin dependent protein kinase II.,miscellaneous:Microcystin toxin is bound to Cys-273 through a thioether bond.,online information:The things we forget -Issue 32 of March 2003,similarity:Belon |
| Subcellular Location : | Cytoplasm . Nucleus. Nucleus, nucleolus . Nucleus, nucleoplasm . Nucleus speckle . Chromosome, centromere, kinetochore . Cleavage furrow . Midbody . Mitochondrion . Cytoplasm, cytoskeleton, microtubule organizing center . Colocalizes with SPZ1 in the nucleus (By similarity). Colocalizes with URI1 at mitochondrion (PubMed:17936702). Rapidly exchanges between the nucleolar, nucleoplasmic and cytoplasmic compartments (PubMed:11739654). Highly mobile in cells and can be relocalized through interaction with targeting subunits (PubMed:17965019). In the presence of PPP1R8 relocalizes from the nucleolus to nuclear speckles (PubMed:11739654). Shows a dynamic targeting to specific sites throughout the cell cycle (PubMed:12529430). Highly concentrated in nucleoli of interphase cells and localizes at |
| Expression : | Embryonic kidney,Placenta,Skeletal muscle, |

Products Images



Western blot detection of PP1C in HeLa, 293T and Jurkat cell lysates using PP1C mouse mAb (1:500 diluted). Predicted band size: 38KDa. Observed band size: 38KDa.