

PP2A  $\alpha$  and  $\beta$  mouse mAb

<b>Catalog No :</b>	YM1266
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IP
<b>Target :</b>	PP2A $\alpha$ and $\beta$
<b>Fields :</b>	>>mRNA surveillance pathway;>>Sphingolipid signaling pathway;>>Oocyte meiosis;>>Autophagy - other;>>Autophagy - animal;>>PI3K-Akt signaling pathway;>>AMPK signaling pathway;>>Adrenergic signaling in cardiomyocytes;>>TGF-beta signaling pathway;>>Hippo signaling pathway;>>Tight junction;>>Dopaminergic synapse;>>Long-term depression;>>Chagas disease;>>Hepatitis C;>>Human papillomavirus infection
<b>Gene Name :</b>	ppp2cb
<b>Human Gene Id :</b>	5516
<b>Human Swiss Prot No :</b>	P62714
<b>Mouse Swiss Prot No :</b>	P62715
<b>Immunogen :</b>	Purified recombinant human full length PP2A beta protein expressed in E.coli
<b>Specificity :</b>	This antibody detects endogenous levels of PP2A alpha and PP2A beta.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb 1:2000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year (Do not lower than -25°C)

**Observed Band :** 36kD

**Cell Pathway :** Oocyte meiosis;WNT;WNT-T CELL TGF-beta;Tight junction;Long-term depression;

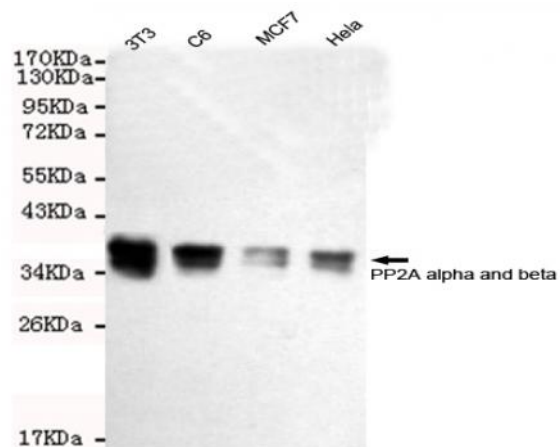
**Background :** This gene encodes the phosphatase 2A catalytic subunit. Protein phosphatase 2A is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. This gene encodes a beta isoform of the catalytic subunit. [provided by RefSeq, Mar 2010],

**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.,function: PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogen-stimulated S6 kinase, and MAP-2 kinase.,PTM: Phosphorylation of either threonine (by autophosphorylation-activated protein kinase) or tyrosine results in inactivation of the phosphatase. Auto-dephosphorylation has been suggested as a mechanism for reactivation.,PTM: Reversibly methyl esterified on Leu-309. Carboxyl methylation may play a role in holoenzyme assembly. It varies during the cell cycle. Demethylated by PME1 (in vitro).,similarity: Belongs to the PPP phosphatase family.,similarity: Belongs to the PPP phosphatase family. PP-1 subfamily.,subcellular location: In prometaphase cells, but not in anaphase cells, localizes at centromeres. During mitosis,

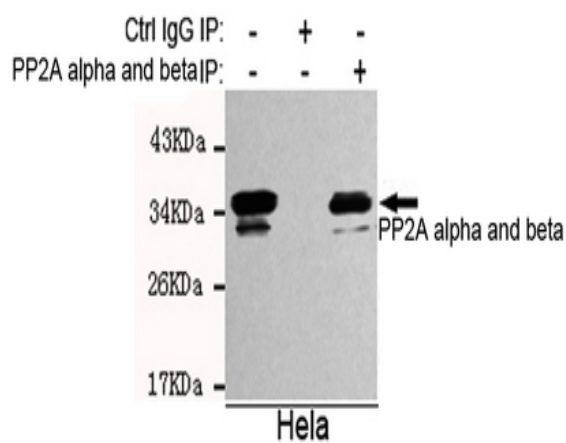
**Subcellular Location :** Cytoplasm . Nucleus . Chromosome, centromere . Cytoplasm, cytoskeleton, spindle pole . In prometaphase cells, but not in anaphase cells, localizes at centromeres. During mitosis, also found at spindle poles.

**Expression :** Fibroblast,Heart,Kidney,Liver,

## Products Images



Western blot detection of PP2A alpha and beta in HeLa, MCF7, C6 and 3T3 cell lysates using PP2A alpha and beta mouse mAb (1:2000 diluted). Predicted band size: 36KDa. Observed band size: 36KDa.



Immunoprecipitation analysis of HeLa cell lysates using PP2A alpha and beta mouse mAb.