

## PP2A-C $\alpha$ Monoclonal Antibody

<b>Catalog No :</b>	YM1079
<b>Reactivity :</b>	Human;Mouse;Bovine;Chicken;Dog;Pig;Rabbit;Zebrafish
<b>Applications :</b>	WB;IF
<b>Target :</b>	PP2AA
<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>	PPP2CA
<b>Protein Name :</b>	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
<b>Human Gene Id :</b>	5515
<b>Human Swiss Prot No :</b>	P67775
<b>Mouse Gene Id :</b>	19052
<b>Mouse Swiss Prot No :</b>	P63330
<b>Rat Swiss Prot No :</b>	P63331
<b>Immunogen :</b>	Purified recombinant human PP2A-C $\alpha$ (N-terminus) protein fragments expressed in E.coli.
<b>Specificity :</b>	PP2A-C $\alpha$ Monoclonal Antibody detects endogenous levels of PP2A-C $\alpha$ protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse

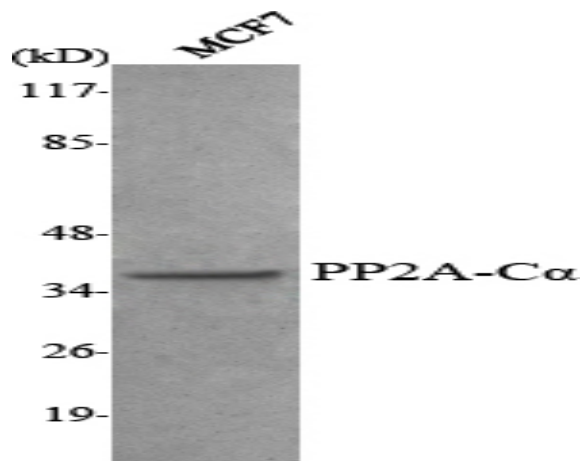
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<b>Dilution :</b>	WB 1:1000 - 1:2000. IF 1:100 - 1:500. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Molecularweight :</b>	36kD
<b>Cell Pathway :</b>	Oocyte meiosis;WNT;WNT-T CELLTGF-beta;Tight junction;Long-term depression;
<b>Background :</b>	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 an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008],
<b>Function :</b>	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. Can dephosphorylate SV40 large T antigen and p53. Dephosphorylates SV40 large T antigen, preferentially on serine residues 120, 123, 677, and perhaps 679. The C subunit was most active, followed by the AC form, which was more active than the ABC form, and activity of all three forms was strongly stimulated by manganese, and to a lesser extent by magnesium. Dephosphorylation by the AC form, but not C or ABC form is inhibited by small T antigen.,PTM:Phosphorylation of either threonine (by autophosphorylation-activated protein kinase) or tyrosine results in inactivation of the phosphatase. Auto-dephosphorylation
<b>Subcellular Location :</b>	Cytoplasm . Nucleus . Chromosome, centromere . Cytoplasm, cytoskeleton, spindle pole . In prometaphase cells, but not in anaphase cells, localizes at centromeres (PubMed:16541025). During mitosis, also found at spindle poles (PubMed:16541025). Centromeric localization requires the presence of SGO2 (By similarity). .
<b>Expression :</b>	Fibroblast,Liver,Lung,Placenta,Testis,Uterus,
<b>Sort :</b>	12928
<b>No4 :</b>	1
<b>Host :</b>	Mouse

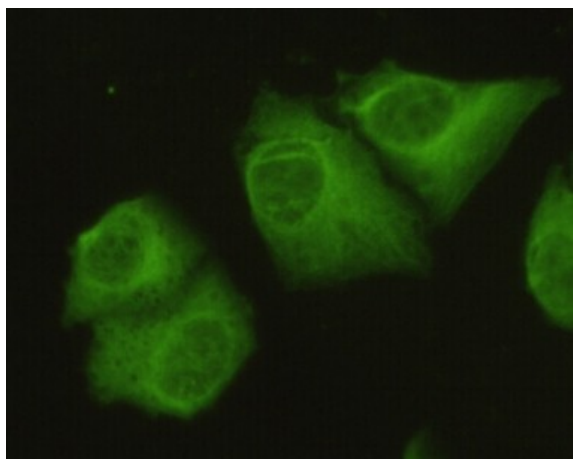
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**Modifications :** Unmodified

## Products Images



Western Blot analysis using PP2A-C $\alpha$  Monoclonal Antibody against MCF7 cell lysate.



Immunofluorescence analysis of HeLa cells using PP2A-C $\alpha$  Monoclonal Antibody.