

PP2A-Cα (phospho Tyr307) Polyclonal Antibody

Catalog No :	YP0889
Reactivity :	Human;Mouse;Rat
Applications :	WB;IP;IHC;IF;ELISA
Target :	PP2AA
Fields :	>>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
Gene Name :	PPP2CA
Protein Name :	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
Human Gene Id :	5515
Human Swiss Prot No :	P67775
Mouse Gene Id :	19052
Mouse Swiss Prot No :	P63330
Rat Gene Id :	24672
Rat Swiss Prot No :	P63331
Immunogen :	The antiserum was produced against synthesized peptide derived from human PP2A-α around the phosphorylation site of Tyr307. AA range:260-309
Specificity :	Phospho-PP2A-Cα (Y307) Polyclonal Antibody detects endogenous levels of PP2A-Cα protein only when phosphorylated at Y307.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	35kD
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 an alpha isoform of the catalytic subunit. [provided by RefSeq, Jul 2008],
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. 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
Subcellular Location :	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). .
Expression :	Fibroblast,Liver,Lung,Placenta,Testis,Uterus,
Tag :	orthogonal,hot,ip

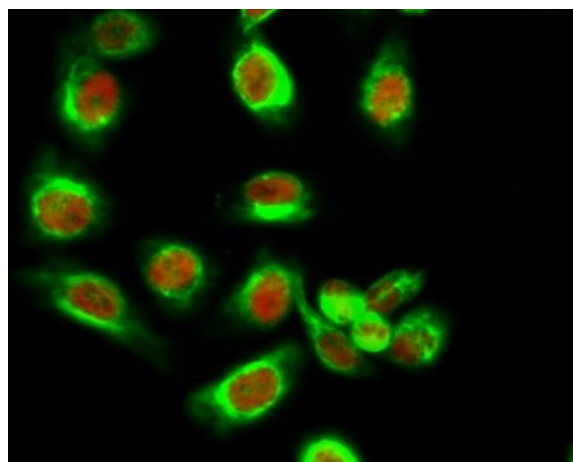
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No4 : 1

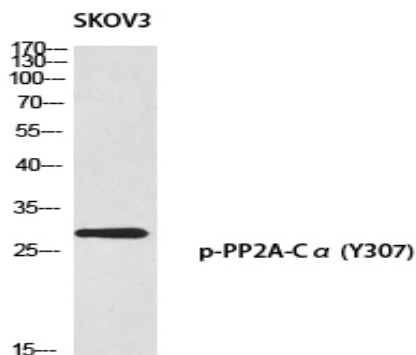
Host : Rabbit

Modifications : Phospho

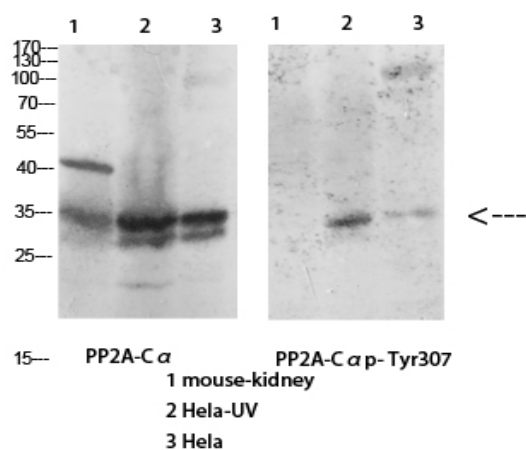
Products Images



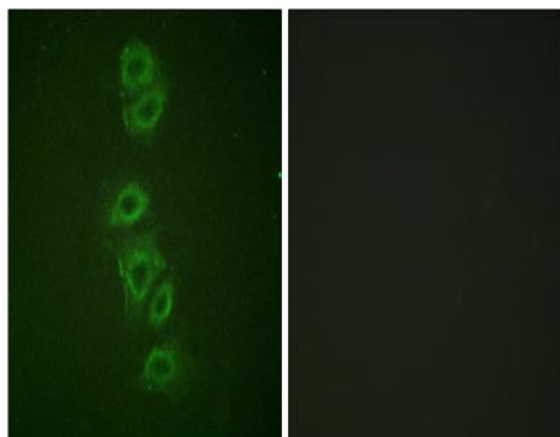
Immunofluorescence analysis of Hela cell. 1, PP2A-Cα (phospho Tyr307) Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). HSP70 Monoclonal Antibody (3G10) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



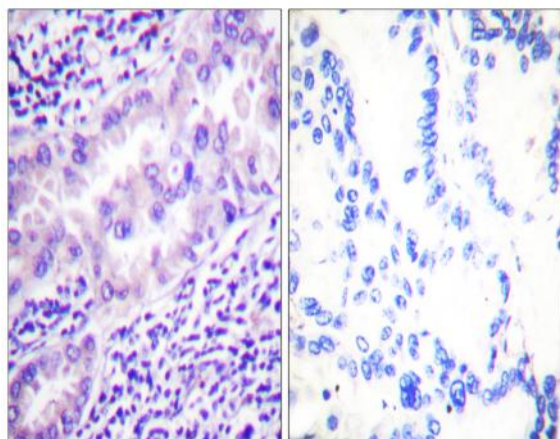
Western blot analysis of SKOV3 using p-PP2A-Cα (Y307) antibody. Antibody was diluted at 1:1000



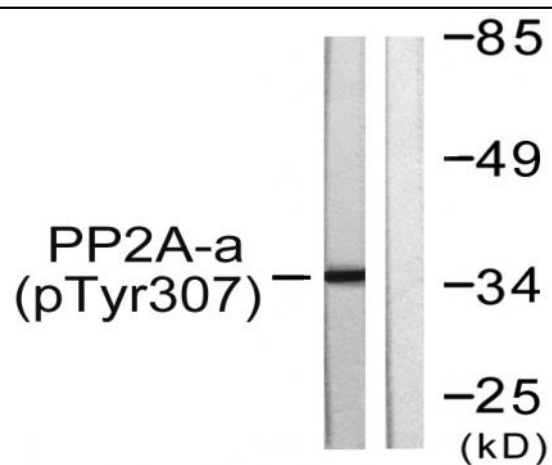
Western Blot analysis of various cells using Antibody diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of A549 cells, using PP2A-alpha (Phospho-Tyr307) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using PP2A-alpha (Phospho-Tyr307) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from A549 cells, using PP2A-alpha (Phospho-Tyr307) Antibody. The lane on the right is blocked with the phospho peptide.