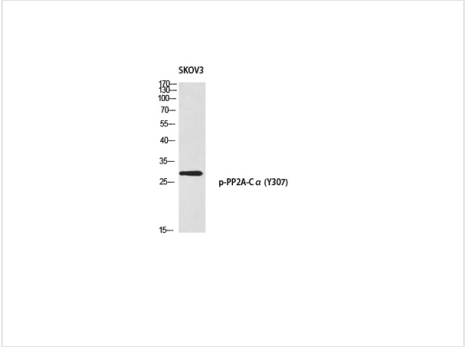
PP2A-CALPHA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PP2A-Calpha, Polyclonal Antibody
Full Product Name	Phospho-PP2A-Calpha (Tyr307) Polyclonal Antibody
Product Gene Name	anti-PP2A-Calpha antibody
Product Synonym Names	PPP2CA; Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform; PP2A-alpha; Replication protein C; RP-C
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated Molecular Weight: 36kDa Observed Molecular Weight: 35kDa
OMIM	X12646 mRNA
3D Structure	ModBase 3D Structure for P67775
Immunogen	Synthesized peptide derived from human PP2A-Calpha around the phosphorylation site of Tyr307
Buffer	PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol, pH7.4
Conjugation	Unconjugated
Product Categories/Family for anti-PP2A-Calpha antibody	Acetyl/Phospho/Methyl Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PP2A-Calpha antibody	Western Blot (WB), Immunohistochemistry (IHC) Paraffin, Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-PP2A-Calpha antibody	WB: 1:500-1:2000 IHC: 1:100-1:300 IF: 1:200-1:1000 ELISA: 1:5000
Related Product Information for anti-PP2A-Calpha antibody	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.
Other Notes	Small volumes of anti-PP2A-Calpha antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PP2A-Calpha purchase	MBS2548845 is an antibody targeting PP2A-Calpha. Also known as Phospho-PP2A-Calpha (Tyr307) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-PP2A-Calpha antibody
Western Blot analysis of SKOV3 cells with Phospho-PP2A-Calpha (Tyr307) Polyclonal Antibody at dilution of 1:1000

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PP2A-Calpha. It may not necessarily be applicable to this product.

NCBI GI #	4506017
NCBI GeneID	5515
NCBI Accession #	NP_002706.1
UniProt Primary Accession #	P67775
UniProt Secondary Accession #	P05323; P13197
UniProt Related Accession #	P67775
GenBank Nucleotide #	NM_002715.3
NCBI Official Full Name	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform isoform 1
NCBI Official Synonym Full Names	protein phosphatase 2 catalytic subunit alpha
NCBI Official Symbol	PPP2CA
NCBI Official Synonym Symbols	RP-C; PP2Ac; PP2CA; PP2Calpha
UniProt Protein Name	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
UniProt Synonym Protein Names	Replication protein C; RP-C
UniProt Gene Name	PPP2CA
UniProt Synonym Gene Names	PP2A-alpha; RP-C
NCBI Protein Information	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform

UniProt Comments for PP2A-Calpha	PPP2CA: ubiquitous cytosolic Ser/Thr protein phosphatase, catalytic subunit. The holoenzyme consists of a 36 kDa catalytic subunit (subunit C) and a 65 kDa constant regulatory subunit (PR65 or subunit A), that associates with a variety of regulatory subunits. Proteins that associate with the core dimer include three families of regulatory subunits B (the R2/B/PR55/B55, R3/B'/PR72/PR130/PR59 and R5/B'/B56 families), the 48 kDa variable regulatory subunit, viral proteins, and cell signaling molecules. Protein type: EC 3.1.3.16; Motility/polarity/chemotaxis; Protein phosphatase, Ser/Thr (non-receptor) Chromosomal Location of Human Ortholog: 5q31.1 Cellular Component: chromosome, centromeric region; cytosol; extracellular exosome; membrane; microtubule cytoskeleton; mitochondrion; nucleus; plasma membrane; protein phosphatase type 2A complex; spindle pole Molecular Function: GABA receptor binding; metal ion binding; phosphoprotein phosphatase activity; protein binding; protein C-terminus binding; protein heterodimerization activity Biological Process: apoptosis; ceramide metabolic process; inactivation of MAPK activity; meiotic cell cycle; mesoderm development; mitotic nuclear envelope reassembly; negative regulation of cell growth; negative regulation of epithelial to mesenchymal transition; negative regulation of tyrosine phosphorylation of STAT protein; nuclear-transcribed mRNA catabolic process, nonsense-mediated decay; positive regulation of protein serine/threonine kinase activity; protein amino acid dephosphorylation; regulation of cell adhesion; regulation of cell differentiation; regulation of DNA replication; regulation of growth; regulation of transcription, DNA-templated; regulation of Wnt receptor signaling pathway; response to organic substance; RNA splicing; second-messenger-mediated signaling
Research Articles on PP2A-Calpha	**1.** Moreover, PP2Acalpha2-overexpressed cells demonstrated increased expression of IGBP1, activated mTORC1 signaling to reduce basal autophagy and increased anchorage-independent growth. Our study provides new insights into the complex mechanisms of PP2A regulation.
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