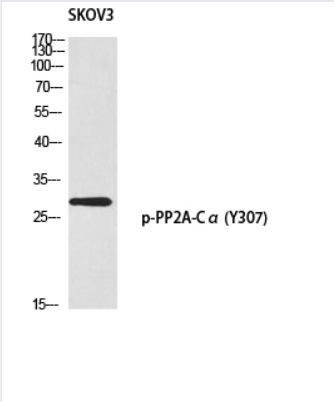
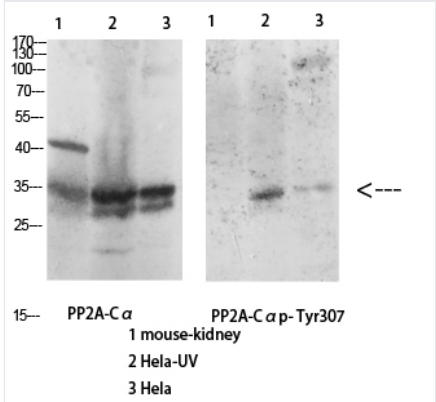
PP2A-CALPHA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PP2A-Calpha, Polyclonal Antibody
Full Product Name	PP2A-Calpha (phospho Tyr307) Polyclonal Antibody
Product Gene Name	anti-PP2A-Calpha antibody
Product Synonym Gene Name	PPP2CA
Product Synonym Names	PPP2CA; Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform; PP2A-alpha; Replication protein C; RP-C
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	35,594 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (133532148..133561950, complement). Location: 5q31.1
OMIM	176915
3D Structure	ModBase 3D Structure for P67775
Applications Tested/Suitable for anti-PP2A-Calpha antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF)
Related Product Information for anti-PP2A-Calpha antibody	PP2A is the major phosphatase for microtubule-associated proteins (MAPs). PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogen-stimulated S6 kinase, and MAP-2 kinase. Cooperates with SGO2 to protect centromeric cohesin from separase-mediated cleavage in oocytes specifically during meiosis I (By similarity). Can dephosphorylate SV40 large T antigen and p53/TP53. Activates RAF1 by dephosphorylating it at 'Ser-259'.
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	MBS9242444 is an antibody targeting PP2A-Calpha. Also known as PP2A-Calpha (phospho Tyr307) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-PP2A-Calpha antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.



Western Blot (WB) of anti-PP2A-Calpha antibody
Dilution: Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

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_002715.2
NCBI Official Full Name	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
NCBI Official Synonym Full Names	protein phosphatase 2, catalytic subunit, alpha isozyme
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
UniProt Gene Name	PPP2CA
UniProt Synonym Gene Names	PP2A-alpha; RP-C
UniProt Entry Name	PP2AA_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform; PP2A-alpha; replication protein C; protein phosphatase 2A catalytic subunit, alpha isoform; protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform; serine/threonine pr
NCBI Summary for PP2A-Calpha	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]

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: microtubule cytoskeleton; spindle pole; protein phosphatase type 2A complex; membrane; mitochondrion; plasma membrane; nucleus; cytosol; chromosome, pericentric region Molecular Function: protein dimerization activity; protein C-terminus binding; protein binding; metal ion binding; GABA receptor binding; protein serine/threonine phosphatase activity Biological Process: mitotic nuclear envelope reassembly; apoptosis; regulation of protein amino acid autophosphorylation; protein amino acid dephosphorylation; response to organic substance; regulation of transcription, DNA-dependent; meiotic cell cycle; regulation of cell differentiation; regulation of growth; mesoderm development; regulation of receptor activity; regulation of DNA replication; inactivation of MAPK activity; second-messenger-mediated signaling; regulation of cell adhesion; fibroblast growth factor receptor signaling pathway; RNA splicing; regulation of Wnt receptor signaling pathway; negative regulation of tyrosine phosphorylation of Stat3 protein; mRNA catabolic process, nonsense-mediated decay; gene expression; regulation of protein catabolic process; mitotic cell cycle; negative regulation of cell growth; ceramide metabolic process
Research Articles on PP2A-Calpha	**1.** Together, these observations suggest that PP2A regulates hTERT subcellular localization, in addition to its inhibitory effects on telomerase activity
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/pp2a-calpha/9242444