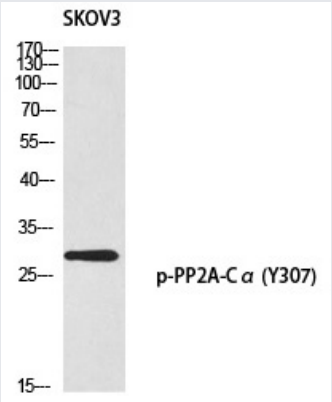
# PP2A-CALPHA Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PP2A-Calpha, Polyclonal Antibody |
| **Full Product Name** | PP2A-Calpha (Phospho-Tyr307) Polyclonal Antibody |
| **Product Gene Name** | anti-PP2A-Calpha antibody |
| **Product Synonym Names** | PP2A-Ca (Phospho-Tyr307) Polyclonal Antibody; 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 |
| **Form/Format** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Purity/Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration** | 1 mg/ml (lot specific) |
| **Specificity** | Phospho-PP2A-Ca (Y307) Polyclonal Antibody detects endogenous levels of PP2A-Ca protein only when phosphorylated at Y307. |
| **Preparation and Storage** | Store at -20 degree C/1 year |
| **Molecular Weight** | 29,735 Da |
| **OMIM** | 176915 |
| **3D Structure** | ModBase 3D Structure for P67775 |
| **Immunogen Type** | peptide |
| **Immunogen Description** | Synthesized peptide derived from human PP2A-Ca around the phosphorylation site of Y307. |
| **Modification** | Phospho-Tyr307 |
| **Target Species** | Human |
| **Target Name** | PP2A-Ca |
| **Product Categories/Family for anti-PP2A-Calpha antibody** | Phospho-specific Ab |
| **Applications Tested/Suitable for anti-PP2A-Calpha antibody** | Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), ELISA (EIA) |
| **Application Notes for anti-PP2A-Calpha antibody** | Western blotting: 1:500 - 1:2000<br>Immunohistochemistry: 1:100 - 1:300<br>Immunofluorescence: 1:200 - 1:1000<br>ELISA: 1:5000<br>Not yet tested in other applications |
| **Related Product Information for anti-PP2A-Calpha antibody** | MBS9408664 is an antibody targeting PP2A-Calpha. Also known as PP2A-Calpha (Phospho-Tyr307) Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |
| **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. |




**Western Blot (WB) of anti-PP2A-Calpha antibody**
Western blot analysis of SKOV3 using p-PP2A-Ca (Y307) antibody.

## ADDITIONAL DETAILS

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

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| **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; RP-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 |
| **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] |

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| **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.<br><br>Protein type: Motility/polarity/chemotaxis; Protein phosphatase, Ser/Thr (non-receptor); EC 3.1.3.16<br><br>Chromosomal Location of Human Ortholog: 5q31.1<br><br>Cellular Component: microtubule cytoskeleton; spindle pole; protein phosphatase type 2A complex; mitochondrion; membrane; plasma membrane; nucleus; cytosol; chromosome, pericentric region<br><br>Molecular Function: protein C-terminus binding; protein dimerization activity; protein binding; metal ion binding; GABA receptor binding; protein serine/threonine phosphatase activity<br><br>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; regulation of cell adhesion; second-messenger-mediated signaling; 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; negative regulation of cell growth; mitotic cell cycle; ceramide metabolic process |
| **Research Articles on PP2A-Calpha** | **1.** Reduced expression of PP2A/PR65 in ameloblastoma compared with normal oral mucosa indicates that PP2A/PR65 is involved in the occurrence and development of ameloblastoma. |
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