

Mouse anti-Human protein phosphatase 2A Monoclonal Antibody | anti-PP2Calpha antibody

protein phosphatase 2A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA111275	Mouse	Human	Immunocytochemistry, Western Blot

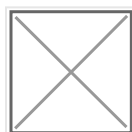
PRODUCT SYNONYMS

protein phosphatase 2A; Monoclonal Antibody; protein phosphatase 2A Antibody; RP-C; PP2Ac; PP2Calpha; Protein Phosphatase 2 alpha; anti-PP2Calpha antibody

PRODUCT SPECIFICATIONS

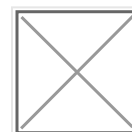
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a
Specificity	This antibody detects endogenous levels PP2A-alpha (N-terminus) and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%, glycerol
Sequence Length	309
Applicable Applications for anti-PP2Calpha antibody	ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	Purified recombinant human PP2A-alpha (N-terminus) protein fragments expressed in E Coli.
Cellular Localization	Cytoplasm; Nucleus

IMAGES



Application Data

Western blot detection of PP2A-alpha(N-terminus) antibody in MCF7 cell lysates using PP2A-alpha(N-terminus) antibody (1:1000 diluted). Predicted band size:35KDa. Observed band size:35KDa.



Application Data

Immunocytochemistry of HeLa cells using anti- PP2A-alpha (N-terminus) antibody diluted 1:50.

ADDITIONAL INFORMATION

Related Product Information for anti-PP2Calpha antibody	UniPort Summary Function: PP2A can modulate the activity of phosphorylase B kinase casein kinase 2, mitogen-stimulated S6 kinase, and MAP-2 kinase. Cooperates with SGOL2 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. 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 Entrez Summary: 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.
Product Categories/Family for anti-PP2Calpha antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506017
NCBI GeneID	5515
NCBI Accession #	NP_002706.1
NCBI GenBank Nucleotide #	NM_002715
UniProt Accession #	P67775; P05323; P13197
Molecular Weight	35kDa
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
NCBI Protein Information	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
UniProt Protein Name	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform
UniProt Gene Name	PPP2CA
UniProt Synonym Gene Names	PP2A-alpha; RP-C

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.