

Mouse anti-Human, Mouse PP2C alpha Monoclonal Antibody | anti-PP2C alpha antibody

PP2C alpha antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA47976	Mouse	Human, Mouse	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

PRODUCT SYNONYMS

PP2C alpha; Monoclonal Antibody; PP2C alpha antibody; Protein phosphatase 1A (formerly 2C) magnesium-dependent alpha isoform; PDP1; PDP; PPM2C; Protein phosphatase 2C; PDP 1; EC 3.1.3.43; Pyruvate dehydrogenase phosphatase catalytic subunit 1; PDPC 1; Pyruvate dehydrogenase acetyl-transferring-phosphatase 1; PPM1A; Protein phosphatase 1A (formerly 2C); ppm1a; FLJ42306; MGC9201; PP2CA; PP2Calpha; PP2C-alpha; protein phosphatase Mg2+/Mn2+ dependent 1A; anti-PP2C alpha antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	p6c7
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	382
Applicable Applications for anti-PP2C alpha antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PP2Calpha (1-382aa) purified from E. coli
Clone Note	Anti-human PP2Calpha mAb, clone p6c7, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with recombinant p6c7.
Preparation and Storage	Can be stored at 4 degree C. For long term storage, aliquot and store at -20 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)
ICC/IF analysis of PP2C alpha in HeLa cells. The cell was stained with APP0401 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).



WB (Western Blot)
The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PP2C alpha antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Jurkat cell lysate Lane 2.: HeLa cell lysate Lane 3.: K562 cell lysate Lane 4.: MCF7 cell lysate Lane 5.: A549 cell lysate Lane 6.: Raji cell lysate The tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PP2C alpha antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Mouse kidney tissue lysate Lane 2.: Mouse brain tissue lysate Lane 3.: Mouse liver tissue lysate

ADDITIONAL INFORMATION

Related Product Information for anti-PP2C alpha antibody	Protein phosphatase 2C (PP2Calpha) is a Mn2+ - or Mg 2+ -dependent protein serine/threonine phosphatase that inhibits the human stress-responsive p38 and JNk MAPk pathways and regulates cellular stress response in eukaryotes. The PPM (metal-dependent protein phosphatase) family of Ser/Thr protein phosphatases have recently been shown to down-regulate the stress response pathways in eukaryotes. Within the stress pathway, key signaling kinases, which are activated by protein phosphorylation, have been proposed as the in vivo substrates of PP2Calpha, the prototypical member of the PPM family.
Product Categories/Family for anti-PP2C alpha antibody	Signal Transduction
References	Lin X, et al., (2006) Cell. 125 (5): 915-928; Duan X, et al., (2006) J Biol Chem. 281 (48):36526-32

NCBI AND UNIPROT INFORMATION

NCBI GI #	10337595
NCBI GeneID	5494
NCBI Accession #	NP_066283
NCBI GenBank Nucleotide #	NM_021003.4
UniProt Accession #	P35813; O75551; B5BU11; J3KNM0
Molecular Weight	51,366 Da
NCBI Official Full Name	protein phosphatase 1A isoform 1
NCBI Official Synonym Full Names	protein phosphatase, Mg2+/Mn2+ dependent 1A
NCBI Official Symbol	PPM1A
NCBI Official Synonym Symbols	PP2CA; PP2Calpha; PP2C-ALPHA
NCBI Protein Information	protein phosphatase 1A
UniProt Protein Name	Protein phosphatase 1A
UniProt Gene Name	PPM1A
UniProt Synonym Gene Names	PPPM1A; PP2C-alpha

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.