

Mouse anti-Human PPP1CA Monoclonal Antibody | anti-PPP1CA antibody

PPP1CA antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48007	Mouse	Human	Immunofluorescence, Immunocytochemistry, Western Blot, ELISA

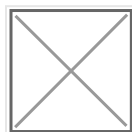
PRODUCT SYNONYMS

PPP1CA; Monoclonal Antibody; PPP1CA antibody; serine/threonine-protein phosphatase PP1-alpha catalytic subunit isoform 1; protein phosphatase 1 catalytic subunit alpha isozyme; PP-1A; PP1alpha; ppp1a; MGC15877; MGC1674;; anti-PPP1CA antibody

PRODUCT SPECIFICATIONS

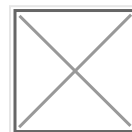
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	4G3
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	330
Applicable Applications for anti-PPP1CA antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PPP1CA (30-299aa) purified from E. coli
Clone Note	Anti-human PPP1CA mAb, clone 4G3, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PPP1CA protein.
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 PPP1CA in HeLa cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PPP1CA antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

Cell lysates of HepG2 (45ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human PPP1CA (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1CA antibody	Protein phosphatase 1, catalytic subunit, alpha isoform, also known as PPP1CA, is one of the three catalytic subunits of protein phosphatase 1. The protein is highly conserved in eukaryotic cells and play a role in dephosphorylating substrates such as the postsynaptic density-associated Ca2+/calmodulin dependent protein kinase II. It is participate in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis and apoptosis
Product Categories/Family for anti-PPP1CA antibody	Signal Transduction
References	Cohen PT. (2002) J Cell Sci. 115 (2):241-56; Hsu LC, et al. (2006) Oncogene. 25 (40):5517-26

NCBI AND UNIPROT INFORMATION

NCBI GI #	4506003
NCBI GeneID	5499
NCBI Accession #	NP_002699
NCBI GenBank Nucleotide #	NM_002708.3
UniProt Accession #	P62136 ; P08129 ; P20653 ; P22802 ; Q07161 ; A6NNR3 ; B2R908
Molecular Weight	32,595 Da
NCBI Official Full Name	serine/threonine-protein phosphatase PP1-alpha catalytic subunit isoform 1
NCBI Official Synonym Full Names	protein phosphatase 1 catalytic subunit alpha
NCBI Official Symbol	PPP1CA
NCBI Official Synonym Symbols	PP1A; PP-1A; PPP1A; PP1alpha
NCBI Protein Information	serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Protein Name	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit
UniProt Gene Name	PPP1CA
UniProt Synonym Gene Names	PPP1A; PP-1A

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/ppp1ca-antibody-clone-4g3-immunofluorescence-immunocytochemistry-western-blot-elisa/48007>