

Mouse anti-Human PPP1R14A Monoclonal Antibody | anti-PPP1R14A antibody

PPP1R14A antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA48022	Mouse	Human	Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, Western Blot, ELISA

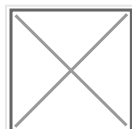
PRODUCT SYNONYMS

PPP1R14A; Monoclonal Antibody; PPP1R14A antibody; Protein phosphatase 1 regulatory (inhibitor) subunit 14A; CPI17; CPI-17; PPP1INL; Protein phosphatase 1; regulatory (inhibitor) subunit 14A; regulatory (inhibitor) subunit 14A CPI 17; CPI 17 alpha; CPI 17alpha; PKC potentiated inhibitory protein of PP1; Protein phosphatase 1 regulatory subunit 14A; Regulatory subunit 14A; ; anti-PPP1R14A antibody

PRODUCT SPECIFICATIONS

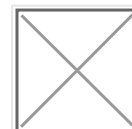
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, k
Clone Number	4H10
Purity/Purification	By protein-G affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	147
Applicable Applications for anti-PPP1R14A antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PPP1R14A (1-147aa) purified from E. coli
Clone Note	Anti-human PPP1R14A mAb, clone 4H10, is derived from hybridization of mouse FO myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human PPP1R14A 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 PPP1R14A in A549 cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PPP1R14A antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PPP1R14A antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1. : A549 cell lysate Lane 2. : NIH-3T3 cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-PPP1R14A antibody	PPP1R14A (Protein phosphatase 1 regulatory subunit 14A) is a phosphorylation-dependent inhibitory protein for smooth muscle myosin phosphate. Myosin phosphatase can reverse MYL (myosin light chain) phosphorylation to induce a state of relaxation. However, during agonist-induced contraction at constant Ca2+ concurrent inhibition of myosin phosphatase leads to increases in MYL phosphorylation and tension. These calcium-independent increases in myosin phosphorylation and tension are termed calcium sensitization.
Product Categories/Family for anti-PPP1R14A antibody	Signal Transduction
References	Hamaguchi., et al. (2000) Biochem. Biophys. Res Commun. 274 (3):825-30; Eto M., et al. (1997) FEBS Lett. 410 (2-3):356-60; Lartey I., et al. (2007) Biol Reprod. 76 (6):971-82

NCBI AND UNIPROT INFORMATION

NCBI GI #	15147250
NCBI GeneID	94274
NCBI Accession #	NP_150281
NCBI GenBank Nucleotide #	NM_033256.2
UniProt Accession #	Q96A00; Q7Z4X7; Q96S54
Molecular Weight	13,480 Da
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 14A isoform 1
NCBI Official Synonym Full Names	protein phosphatase 1 regulatory inhibitor subunit 14A
NCBI Official Symbol	PPP1R14A
NCBI Official Synonym Symbols	CPI17; CPI-17; PPP1INL
NCBI Protein Information	protein phosphatase 1 regulatory subunit 14A
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 14A
UniProt Gene Name	PPP1R14A
UniProt Synonym Gene Names	CPI17; PPP1INL; CPI-17

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.