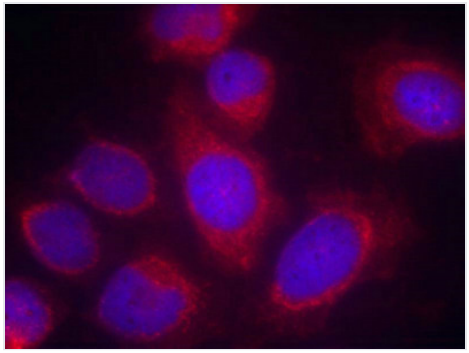
PPP1R14A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPP1R14A, Polyclonal Antibody
Full Product Name	PPP1R14A (Ab-38) Antibody
Product Gene Name	anti-PPP1R14A antibody
Product Synonym Names	CPI; CPI-17; CPI17; PP14A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; Supplied at 1.0mg/mL In Phosphate Buffered Saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were Purified by affinity-chromatography using epitope-specific peptide.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	16,693 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (38741877..38747231, complement). Location: 19q13.1
OMIM	608153
3D Structure	ModBase 3D Structure for Q96A00
Immunogen	Peptide sequence around aa.36~40 (R-V-T-V-K) derived from Human CPI17a.
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-PPP1R14A antibody	Signal Transduction
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PPP1R14A antibody	ELISA (EIA), Immunofluorescence (IF)
Application Notes for anti-PPP1R14A antibody	IF: 1:100-1:200
Related Product Information for anti-PPP1R14A antibody	MBS7130428 is an antibody targeting PPP1R14A. Also known as PPP1R14A (Ab-38) Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-PPP1R14A 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.



Immunofluorescence (IF) of anti-PPP1R14A antibody
Immunofluorescence staining of methanol-fixed Hela cells using CPI17a(Ab-38) Antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP1R14A. It may not necessarily be applicable to this product.

NCBI GI #	345441807
NCBI GeneID	94274
NCBI Accession #	NP_001230876.1
UniProt Primary Accession #	Q96A00
UniProt Secondary Accession #	Q7Z4X7; Q96S54
UniProt Related Accession #	Q96A00
GenBank Nucleotide #	NM_001243947.1
NCBI Official Full Name	protein phosphatase 1 regulatory subunit 14A isoform 2
NCBI Official Synonym Full Names	protein phosphatase 1, regulatory (inhibitor) subunit 14A
NCBI Official Symbol	PPP1R14A
NCBI Official Synonym Symbols	CPI17; CPI-17; PPP1INL
UniProt Protein Name	Protein phosphatase 1 regulatory subunit 14A
UniProt Synonym Protein Names	17 kDa PKC-potentiated inhibitory protein of PP1; Protein kinase C-potentiated inhibitor protein of 17 kDa
UniProt Gene Name	PPP1R14A
UniProt Synonym Gene Names	CPI17; PPP1INL; CPI-17
UniProt Entry Name	PP14A_HUMAN
NCBI Protein Information	protein phosphatase 1 regulatory subunit 14A; 17-KDa protein; PKC-potentiated inhibitory protein of PP1; 17 kDa PKC-potentiated inhibitory protein of PP1; 17-kDa PKC-potentiated inhibitory protein of PP1; protein kinase C-potentiated inhibitor protein of
NCBI Summary for PPP1R14A	The protein encoded by this gene belongs to the protein phosphatase 1 (PP1) inhibitor family. This protein is an inhibitor of smooth muscle myosin phosphatase, and has higher inhibitory activity when phosphorylated. Inhibition of myosin phosphatase leads to increased myosin phosphorylation and enhanced smooth muscle contraction. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Sep 2011]

UniProt Comments for PPP1R14A	PPP1R14A: a phosphorylation-dependent inhibitory subunit of protein phosphatase 1 (PP-1A). Phosphorylation by PKC regulates its binding to PP-1A. Acts co-operatively to inhibit myosin light chain phosphatase (MLCP) activity. Inhibition leads to increased myosin phosphorylation and enhances smooth muscle contraction in the absence of increased intracellular Ca(2) concentration. Involved in the regulation of cell morphology, re-organisation of microfilaments, and cell spreading. Also expressed in human platelets and in brain where it may play a role in cerebellar long-term synaptic depression. Phosphorylation by ILK or Rho kinase enhances its ability to inhibit PP-1A. Protein type: Protein phosphatase, regulatory subunit; Inhibitor Chromosomal Location of Human Ortholog: 19q13.1 Cellular Component: cytoplasm Molecular Function: protein phosphatase inhibitor activity Biological Process: regulation of phosphorylation; negative regulation of catalytic activity
Research Articles on PPP1R14A	**1.** The study characterized the CPI-17 promoter and identified binding sites for GATA-6 and nuclear factor kappa B (NF-kappaB).
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