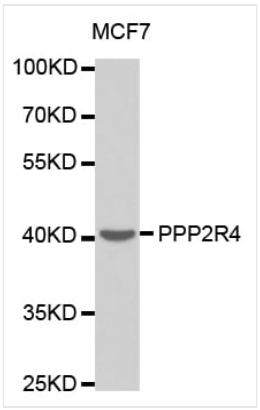
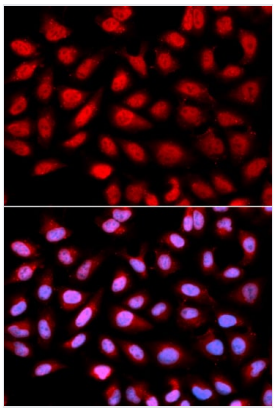
PPP2R4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPP2R4, Polyclonal Antibody
Full Product Name	PPP2R4 Antibody
Product Gene Name	anti-PPP2R4 antibody
Product Synonym Names	PP2A; PR53; PTPA
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	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 purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total PPP2R4 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	31,859 Da
OMIM	600756
3D Structure	ModBase 3D Structure for Q15257
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human PPP2R4.
Target Name	PPP2R4
Product Categories/Family for anti-PPP2R4 antibody	Total protein Ab
Applications Tested/Suitable for anti-PPP2R4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-PPP2R4 antibody	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:100 Immunofluorescence: 1:50 - 1:200
Related Product Information for anti-PPP2R4 antibody	Protein phosphatase 2A is one of the four major Ser/Thr phosphatases and is implicated in the negative control of cell growth and division. Protein phosphatase 2A holoenzymes are heterotrimeric proteins composed of a structural subunit A, a catalytic subunit C, and a regulatory subunit B. The regulatory subunit is encoded by a diverse set of genes that have been grouped into the B/PR55, B'/PR61, and B"/PR72 families. These different regulatory subunits confer distinct enzymatic specificities and intracellular localizations to the holozenzyme. The product of this gene belongs to the B' family. This gene encodes a specific phosphotyrosyl phosphatase activator of the dimeric form of protein phosphatase 2A. Alternative splicing results in multiple transcript variants encoding different isoforms.
Other Notes	Small volumes of anti-PPP2R4 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.
Searchable Terms for PPP2R4 purchase	MBS9408412 is an antibody targeting PPP2R4. Also known as PPP2R4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-PPP2R4 antibody
Western blot analysis of extracts of MCF7 cell line, using PPP2R4 antibody.



Immunofluorescence (IF) of anti-PPP2R4 antibody
Immunofluorescence analysis of U2OS cell using PPP2R4 antibody. Blue: DAPI for nuclear staining.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP2R4. It may not necessarily be applicable to this product.

NCBI GI #	301129290
NCBI GeneID	5524
NCBI Accession #	NP_001180326.1
UniProt Primary Accession #	Q15257
UniProt Secondary Accession #	Q15258; Q53GZ3; Q5TZQ2; Q9BUK1; Q9NNZ7; Q9NNZ8; Q9NNZ9; A2A347; A9IZU4; B4DXM4
UniProt Related Accession #	Q15257
GenBank Nucleotide #	NM_001193397.1
NCBI Official Full Name	serine/threonine-protein phosphatase 2A activator isoform e
NCBI Official Synonym Full Names	protein phosphatase 2A activator, regulatory subunit 4
NCBI Official Symbol	PPP2R4
NCBI Official Synonym Symbols	PP2A; PR53; PTPA
UniProt Protein Name	Serine/threonine-protein phosphatase 2A activator
UniProt Synonym Protein Names	PP2A, subunit B', PR53 isoform; Phosphotyrosyl phosphatase activator; PTPA; Serine/threonine-protein phosphatase 2A regulatory subunit 4; Serine/threonine-protein phosphatase 2A regulatory subunit B'
UniProt Gene Name	PPP2R4
UniProt Synonym Gene Names	PTPA; PTPA
UniProt Entry Name	PTPA_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase 2A activator

UniProt Comments for PPP2R4	PPP2R4: PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Acts as a regulatory subunit for serine/threonine- protein phosphatase 2A (PP2A) modulating its activity or substrate specificity, probably by inducing a conformational change in the catalytic subunit, a proposed direct target of the PPIase. Can reactivate inactive phosphatase PP2A-phosphatase methylesterase complexes (PP2A(i)) in presence of ATP and Mg(2+). Reversibly stimulates the variable phosphotyrosyl phosphatase activity of PP2A core heterodimer PP2A(D) in presence of ATP and Mg(2+) (in vitro). The phosphotyrosyl phosphatase activity is dependent of an ATPase activty of the PP2A(D):PPP2R4 complex. Is involved in apoptosis; the function appears to be independent from PP2A. Associates with PP2A heterodimeric core enzyme PP2A(D), composed of a 36 kDa catalytic subunit (subunit C) and a 65 kDa constant regulatory subunit (PR65 or subunit A). Interacts with PPP2CB. Widely expressed. Belongs to the PTPA-type PPIase family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: EC 5.2.1.8; Motility/polarity/chemotaxis; Protein phosphatase, regulatory subunit Chromosomal Location of Human Ortholog: 9q34 Cellular Component: nucleoplasm; protein phosphatase type 2A complex; cytoplasm; nucleus Molecular Function: peptidyl-prolyl cis-trans isomerase activity; protein homodimerization activity; protein phosphatase 2A binding; protein heterodimerization activity; ATPase activity; protein phosphatase type 2A regulator activity; ATP binding; protein tyrosine phosphatase activator activity; receptor binding Biological Process: positive regulation of phosphoprotein phosphatase activity; negative regulation of protein amino acid dephosphorylation; protein peptidyl-prolyl isomerization; metabolic process; positive regulation of apoptosis; mitotic spindle organization and biogenesis in nucleus; negative regulation of phosphoprotein phosphatase activity; regulation of phosphoprotein phosphatase activity; positive regulation of protein amino acid dephosphorylation
Research Articles on PPP2R4	**1.** results suggested that PPFIA1 functioned with PP2A to promote the dephosphorylation of Kif7, triggering Kif7 localization to the tips of primary cilia and promoting Gli transcriptional activity.
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