PPP2R4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPP2R4, Polyclonal Antibody
Full Product Name	PPP2R4 (N-Term) Rabbit pAb
Product Gene Name	anti-PPP2R4 antibody
Product Synonym Names	Serine/threonine-protein phosphatase 2A activator; 5.2.1.8; PP2A; subunit B'; PR53 isoform; Phosphotyrosyl phosphatase activator; PTPA; Serine/threonine-protein phosphatase 2A regulatory subunit 4; Serine/threonine-protein phosphatase 2A regulatory subuni
Clonality	Polyclonal
Isotype	Ig
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	In PBS supplemented with 0.09% (W/V) Sodium Azide.
Purity/Purification	Affinity Purified
OMIM	600756
3D Structure	ModBase 3D Structure for Q15257
Immunogen	This PPP2R4 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 3-35 amino acids from human PPP2R4.
Cellular Localization	Cytoplasm, Nucleus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PPP2R4 antibody	Western Blot (WB)
Application Notes for anti-PPP2R4 antibody	WB: 1:2000
Related Product Information for anti-PPP2R4 antibody	MBS8557861 is an antibody targeting PPP2R4. Also known as PPP2R4 (N-Term) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
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.

ADDITIONAL DETAILS

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

NCBI GI #	116242737
NCBI GeneID	5524
NCBI Accession #	Q15257.3
UniProt Primary Accession #	Q15257
UniProt Related Accession #	Q15257

NCBI Official Full Name	Serine/threonine-protein phosphatase 2A activator
NCBI Official Synonym Full Names	protein phosphatase 2 phosphatase activator
NCBI Official Symbol	PTPA
NCBI Official Synonym Symbols	PP2A; PR53; PPP2R4
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
NCBI Summary for PPP2R4	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. [provided by RefSeq, Jul 2008]
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: Motility/polarity/chemotaxis; EC 5.2.1.8; 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; positive regulation of apoptosis; metabolic process; 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.** Low PP2A expression is associated with chronic obstructive pulmonary disease
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