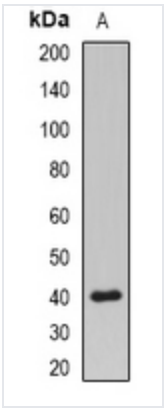
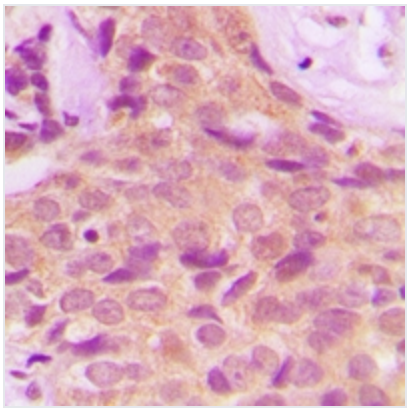
PPP2R4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

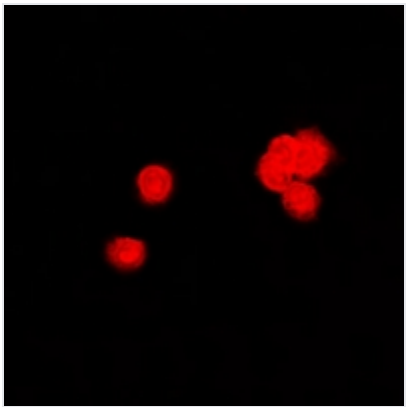
Product Name	PPP2R4, Polyclonal Antibody
Full Product Name	Rabbit anti-PPP2R4 Antibody
Product Gene Name	anti-PPP2R4 antibody
Product Synonym Names	PTPA; Serine/threonine-protein phosphatase 2A activator; PP2A, subunit B', PR53 isoform; Phosphotyrosyl phosphatase activator; PTPA; Serine/threonine-protein phosphatase 2A regulatory subunit 4; Serine/threonine-protein phosphatase 2A regulatory subunit B'
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	358
OMIM	600756
3D Structure	ModBase 3D Structure for Q15257
Immunogen	Recombinant full length protein of human PPP2R4
Product Categories/Family for anti-PPP2R4 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PPP2R4 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-PPP2R4 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF:IC: 1:50-1:200
Related Product Information for anti-PPP2R4 antibody	MBS4511330 is an antibody targeting PPP2R4. Also known as Rabbit anti-PPP2R4 Antibody. Reactive in Human, Mouse, Rat. 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.



Western Blot (WB) of anti-PPP2R4 antibody
Western blot analysis of PPP2R4 expression in MCF7 (A) whole cell lysates.



Immunohistochemistry (IHC) of anti-PPP2R4 antibody
Immunohistochemical analysis of PPP2R4 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-PPP2R4 antibody
Immunofluorescent analysis of PPP2R4 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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 Secondary Accession #	P58389
UniProt Related Accession #	Q15257
NCBI Official Full Name	Serine/threonine-protein phosphatase 2A activator
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; PP2A phosphatase activator; PP2A subunit B' isoform PR53; phosphotyrosyl phosphatase activator; protein phosphatase 2A, regulatory subunit B' (PR 53); serine/threonine-protein phosphatase 2A regulatory su
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.** PP2A is activated upon CK2 activation and acts as the dephosphorylating agent for pStat3S727.
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