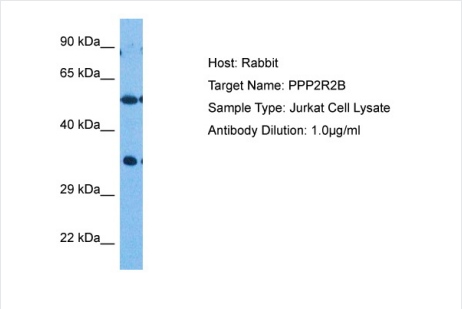
# PPP2R2B Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | PPP2R2B, Polyclonal Antibody |
| **Full Product Name** | PPP2R2B Antibody - middle region |
| **Product Gene Name** | anti-PPP2R2B antibody |
| **Product Synonym Gene Name** | PR52B; SCA12; B55BETA; PR55BETA; PP2ABBETA; PP2APR55B; PR2ABBETA; PR55-BETA; PP2AB55BETA; PR2AB55BETA; PP2APR55BETA; PR2APR55BETA |
| **Immunogen Sequence** | Synthetic peptide located within the following region: TVKLWKVSER DKRPEGYNLK DEEGRLRDPA TITTLRVPVL RPMDLMVEAT |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. |
| **Purity/Purification** | Affinity purified |
| **Preparation and Storage** | For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles. |
| **Antibody/Peptide Pairs** | PPP2R2B peptide (MBS3245650) is used for blocking the activity of PPP2R2B antibody (MBS3220853) |
| **Molecular Weight** | 52 kDa |
| **OMIM** | 604325 |
| **3D Structure** | ModBase 3D Structure for Q00005 |
| **Immunogen** | The immunogen is a synthetic peptide directed towards the middle region of human PPP2R2B |
| **Product Categories/Family for anti-PPP2R2B antibody** | Polyclonal |
| **Applications Tested/Suitable for anti-PPP2R2B antibody** | Western Blot (WB) |
| **Related Product Information for anti-PPP2R2B antibody** | The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a beta isoform of the regulatory subunit B55 subfamily. Defects in this gene cause autosomal dominant spinocerebellar ataxia 12 (SCA12), a disease caused by degeneration of the cerebellum, sometimes involving the brainstem and spinal cord, and in resulting in poor coordination of speech and body movements. Multiple alternatively spliced variants, which encode different isoforms, have been identified for this gene. The 5' UTR of some of these variants includes a CAG trinucleotide repeat sequence (7-28 copies) that can be expanded to 66-78 copies in cases of SCA12. |
| **Other Notes** | Small volumes of anti-PPP2R2B 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 PPP2R2B purchase** | MBS3220853 is an antibody targeting PPP2R2B. Also known as PPP2R2B Antibody - middle region. Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-PPP2R2B antibody**
Host: RabbitTarget Name: PPP2R2BSample Tissue: Human Jurkat Whole CellAntibody Dilution: 1.0ug/ml

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP2R2B. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 430727960 |
| **NCBI GeneID** | 5521 |
| **NCBI Accession #** | NP_001258828.1 |
| **UniProt Primary Accession #** | Q00005 |
| **UniProt Related Accession #** | Q00005 |
| **GenBank Nucleotide #** | NM_001271899.1 |
| **NCBI Official Full Name** | serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B beta isoform isoform g |
| **NCBI Official Synonym Full Names** | protein phosphatase 2 regulatory subunit Bbeta |
| **NCBI Official Symbol** | PPP2R2B |
| **NCBI Official Synonym Symbols** | PR52B; SCA12; B55BETA; PR55BETA; PP2ABBETA; PP2APR55B; PR2ABBETA; PR55-BETA; PP2AB55BETA; PR2AB55BETA; PP2APR55BETA; PR2APR55BETA |
| **UniProt Protein Name** | Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B beta isoform |
| **UniProt Synonym Protein Names** | PP2A subunit B isoform B55-beta; PP2A subunit B isoform PR55-beta; PP2A subunit B isoform R2-beta; PP2A subunit B isoform beta |
| **Protein Family** | Serine/threonine-protein phosphatase |
| **UniProt Gene Name** | PPP2R2B |
| **UniProt Entry Name** | 2ABB_HUMAN |
| **NCBI Protein Information** | serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B beta isoform |
| **NCBI Summary for PPP2R2B** | The product of this gene belongs to the phosphatase 2 regulatory subunit B family. Protein phosphatase 2 is one of the four major Ser/Thr phosphatases, and it is implicated in the negative control of cell growth and division. It consists of a common heteromeric core enzyme, which is composed of a catalytic subunit and a constant regulatory subunit, that associates with a variety of regulatory subunits. The B regulatory subunit might modulate substrate selectivity and catalytic activity. This gene encodes a beta isoform of the regulatory subunit B55 subfamily. Defects in this gene cause autosomal dominant spinocerebellar ataxia 12 (SCA12), a disease caused by degeneration of the cerebellum, sometimes involving the brainstem and spinal cord, and in resulting in poor coordination of speech and body movements. Multiple alternatively spliced variants, which encode different isoforms, have been identified for this gene. The 5' UTR of some of these variants includes a CAG trinucleotide repeat sequence (7-28 copies) that can be expanded to 55-78 copies in cases of SCA12. [provided by RefSeq, Jul 2016] |

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| **UniProt Comments for PPP2R2B** | PPP2R2B: the B regulatory subunit of PP2A. May modulate substrate selectivity and catalytic activity, and directs the localization of the catalytic enzyme to particular subcellular compartments. PPP2R2B promotes autophagy and oxidative stress induced cell death that is related to apoptosis. The PP2A holoenzyme consists of a common heterodimeric core enzyme composed of a 36 kDa catalytic subunit (subunit C) and a 65 kDa constant regulatory subunit (subunit A), that associates with a variety of regulatory subunits. Three families of regulatory subunits associate with the core dimmer: B (R2/PR55/B55), BÂ¿ (R5/B56), and BÂ¿ (R3/PR72/PR130/PR59). Five isoforms of the human protein are produced by alternative splicing. Isoform 1 (Bbeta1) localizes within the cytoplasm. Isoform 2 (Bbeta2) localizes to both cytosolic and mitochondrial compartments under basal conditions, relocating to the mitochondrial compartment during apoptosis. Its targeting to the outer mitochondrial membrane (OMM) involves an association with import receptors of the TOM complex and is required to promote proapoptotic activity. The N-terminal 26 residues of isoform 2 constitute a cryptic mitochondrial matrix import signal that is necessary and sufficient for targeting the PP2A holoenzyme to the OMM. The last WD repeat of isoform 2 constitutes a mitochondrial stop-transfer domain that prevents PPP2R2B matrix translocation and signal sequence cleavage. Defects in PPP2R2B are the cause of spinocerebellar ataxia type 12 (SCA12).<br><br>Protein type: Motility/polarity/chemotaxis; Apoptosis; Mitochondrial; Protein phosphatase, regulatory subunit<br><br>Chromosomal Location of Human Ortholog: 5q32<br><br>Cellular Component: mitochondrial outer membrane; protein phosphatase type 2A complex; cytoskeleton; mitochondrion<br><br>Molecular Function: protein binding; protein phosphatase type 2A regulator activity<br><br>Biological Process: apoptosis; regulation of catalytic activity; signal transduction<br><br>Disease: Spinocerebellar Ataxia 12 |
| **Research Articles on PPP2R2B** | **1.** Dephosphorylation and total levels of beta-catenin were dependent on PR55beta in an adenoid cystic carcinoma tumor cell line. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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