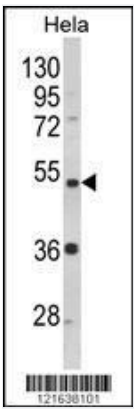
PPP2R2B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPP2R2B, Polyclonal Antibody
Full Product Name	PPP2R2B, ID (Serine/Threonine-protein Phosphatase 2A 55kD Regulatory Subunit B beta Isoform, PP2A, Subunit B Isoform B55-beta, PP2A Subunit B Isoform PR55-beta, PP2A Subunit B Isoform R2-beta, PP2A Subunit B Isoform beta) (FITC)
Product Gene Name	anti-PPP2R2B antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human PPP2R2B.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	62,505 Da
OMIM	604325
3D Structure	ModBase 3D Structure for Q00005
Immunogen	Synthetic peptide selected from the center region of human PPP2R2B (KLH).
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-PPP2R2B antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PPP2R2B antibody	Western Blot (WB), FLISA
Application Notes for anti-PPP2R2B antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PPP2R2B antibody	MBS6495513 is an antibody targeting PPP2R2B. Also known as PPP2R2B, ID (Serine/Threonine-protein Phosphatase 2A 55kD Regulatory Subunit B beta Isoform, PP2A, Subunit B Isoform B55-beta, PP2A Subunit B Isoform PR55-beta, PP2A Subunit B Isoform R2-beta, PP2A Subunit B Isoform beta) (FITC). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-PPP2R2B antibody	1. Rajkiewicz, M., et.al., Neurol. Neurochir. Pol. 42(6), 497-504 (2008). 2. Ben-Israel, H., et.al., J. Virol. 82(19), 9381-9388 (2008). 3. Strack, S., et.al., J. Comp. Neurol. 392(4), 515-527 (1998).

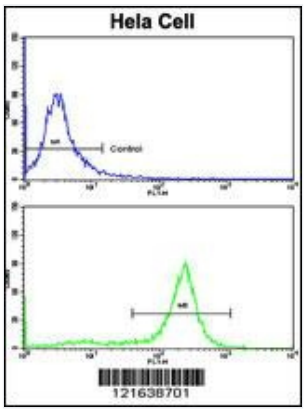
Other Notes	Small volumes of anti-PPP2R2B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-PPP2R2B antibody
Western blot analysis of PPP2R2B Antibody (Center) in Hela cell line lysates (35ug/lane). PPP2R2B (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-PPP2R2B antibody
Formalin-fixed and paraffin-embedded human brain tissue with PPP2R2B Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-PPP2R2B antibody
Flow cytometric analysis of hela cells using PPP2R2B Antibody (Center)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

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

NCBI GI #	4758954
NCBI GeneID	5521
NCBI Accession #	NP_004567.1
UniProt Primary Accession #	Q00005
UniProt Secondary Accession #	A6NEJ2; A8K102; B3KPD0; B7Z2F2; B7Z304; D3DQF7; D3DQF8; G3V149
UniProt Related Accession #	Q00005
GenBank Nucleotide #	NM_004576.2
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]
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). Protein type: Motility/polarity/chemotaxis; Apoptosis; Mitochondrial; Protein phosphatase, regulatory subunit Chromosomal Location of Human Ortholog: 5q32 Cellular Component: mitochondrial outer membrane; protein phosphatase type 2A complex; cytoskeleton; mitochondrion Molecular Function: protein binding; protein phosphatase type 2A regulator activity Biological Process: apoptosis; regulation of catalytic activity; signal transduction 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.
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