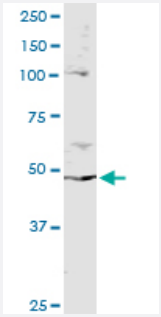
PPP2R2B monoclonal antibody (M02), clone 1F3

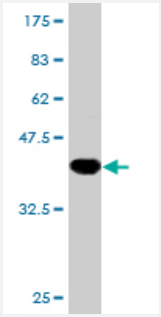
Catalog # H00005521-M02 Size 100 ug

Applications



Immunoprecipitation

Immunoprecipitation of PPP2R2B transfected lysate using anti-PPP2R2B monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PPP2R2B MaxPab rabbit polyclonal antibody.



Western Blot detection against Immunogen (37.4 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PPP2R2B.
Immunogen	PPP2R2B (AAH31790.1, 22 a.a. ~ 128 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	TEADIISTVEFNHTGELLATGDKGGRVVIFQREQESKNQVHRRGEYNVYSTFQSHEPEFDYLKSLEIEEKINKIRWLPQQNAAYFLLSTNDKTVKLWKVSERDKRPE
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa

Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.4 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

  Protocol Download

- Immunoprecipitation

  Immunoprecipitation of PPP2R2B transfected lysate using anti-PPP2R2B monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PPP2R2B MaxPab rabbit polyclonal antibody.

  Protocol Download

- ELISA

Gene Info — PPP2R2B

Entrez GeneID	5521
GeneBank Accession#	BC031790
Protein Accession#	AAH31790.1
Gene Name	PPP2R2B
Gene Alias	B55-BETA, FLJ95686, MGC24888, PP2A-B55BETA, PP2A-PR55B, PP2AB-BETA, PP2APR5 5-BETA, PR2AB-BETA, PR2AB55-BETA, PR2APR55-BETA, PR52B, PR55-BETA, SCA12
Gene Description	protein phosphatase 2 (formerly 2A), regulatory subunit B, beta isoform
Omim ID	604325 604326
Gene Ontology	Hyperlink

Gene Summary	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. [provided by RefSeq
Other Designations	PP2A, subunit B, B-beta isoform|PP2A, subunit B, R2-beta isoform|beta isoform of regulatory subunit B55, protein phosphatase 2|protein phosphatase 2 (formerly 2A), regulatory subunit B (PR 52), beta isoform|serine/threonine protein phosphatase 2A, 55 kDa

Pathway

- Tight junction

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Cerebellar Ataxia
- Chronic Disease
- Diabetes Mellitus
- Disease Progression
- Edema
- Essential tremor
- Genetic Predisposition to Disease
- Genomic Instability
- Parkinson disease
- Schizophrenia

- Spinocerebellar ataxia
- Spinocerebellar Ataxias
- Tobacco Use Disorder