PP4R2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PP4R2, Polyclonal Antibody
Full Product Name	PP4R2 Antibody
Product Gene Name	anti-PP4R2 antibody
Product Synonym Names	MGC131930; PP4R2; protein phosphatase 4; regulatory subunit 2
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total PP4R2 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	46,898 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (73046119..73115011). Location: 3p13
OMIM	613822
3D Structure	ModBase 3D Structure for Q9NY27
Immunogen	Synthesized peptide derived from internal of human PP4R2.
Product Categories/Family for anti-PP4R2 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PP4R2 antibody	Western Blot (WB)
Application Notes for anti-PP4R2 antibody	WB: 1:500~1:3000
Related Product Information for anti-PP4R2 antibody	Regulatory subunit of serine/threonine-protein phosphatase 4 (PP4). May regulate the activity of PPP4C at centrosomal microtubule organizing centers. Its interaction with the SMN complex leads to enhance the temporal localization of snRNPs, suggesting a role of PPP4C in maturation of spliceosomal snRNPs. The PPP4C-PPP4R2-PPP4R3A PP4 complex specifically dephosphorylates H2AFX phosphorylated on 'Ser-140' (gamma-H2AFX) generated during DNA replication and required for DNA double strand break repair. Mediates RPA2 dephosphorylation by recruiting PPP4C to RPA2 in a DNA damage-dependent manner. RPA2 dephosphorylation is required for the efficient RPA2-mediated recruitment of RAD51 to chromatin following double strand breaks, an essential step for DNA repair.
Product References and Citations for anti-PP4R2 antibody	Hastie C.J., Biochem. J. 347:845-855 (2000).Zhang W., Submitted (DEC-2000) to the EMBL/GenBank/DDBJ databases.Mural R.J., Submitted (DEC-2006) to the EMBL/GenBank/DDBJ database

Other Notes	Small volumes of anti-PP4R2 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 PP4R2 purchase	MBS8588601 is an antibody targeting PP4R2. Also known as PP4R2 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PP4R2. It may not necessarily be applicable to this product.

NCBI GI #	28372531
NCBI GeneID	151987
NCBI Accession #	NP_777567.1
UniProt Primary Accession #	Q9NY27
UniProt Secondary Accession #	Q2TAJ9; Q498B8; Q8WXX6; A8K1I6
UniProt Related Accession #	Q9NY27
GenBank Nucleotide #	NM_174907.2
NCBI Official Full Name	serine/threonine-protein phosphatase 4 regulatory subunit 2
NCBI Official Synonym Full Names	protein phosphatase 4, regulatory subunit 2
NCBI Official Symbol	PPP4R2
NCBI Official Synonym Symbols	PP4R2
UniProt Protein Name	Serine/threonine-protein phosphatase 4 regulatory subunit 2
UniProt Gene Name	PPP4R2
UniProt Entry Name	PP4R2_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase 4 regulatory subunit 2
UniProt Comments for PP4R2	PPP4R2: a protein of unknown function. Protein type: Protein phosphatase, regulatory subunit Chromosomal Location of Human Ortholog: 3p13 Cellular Component: nucleoplasm; centrosome; cytoplasm; nucleus Molecular Function: protein binding, bridging; protein binding; protein phosphatase type 4 regulator activity Biological Process: regulation of catalytic activity; RNA splicing; protein modification process; hemopoietic progenitor cell differentiation; mRNA processing
Research Articles on PP4R2	**1.** PPP4R2 affects the survival of neuronal cells in response to DNA damage.
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