PPP2R1A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PPP2R1A, Polyclonal Antibody
Full Product Name	PPP2R1A, CT (PPP2R1A, Serine/threonine-protein phosphatase 2A 65kD regulatory subunit A alpha isoform, Medium tumor antigen-associated 61kD protein, PP2A subunit A isoform PR65-alpha, PP2A subunit A isoform R1-alpha) (MaxLight 650)
Product Gene Name	anti-PPP2R1A antibody
Product Synonym Names	PPP2R1A; Serine/threonine-protein phosphatase 2A 65kD regulatory subunit A alpha isoform; Medium tumor antigen-associated 61kD protein; PP2A subunit A isoform PR65-alpha; PP2A subunit A isoform R1-alpha
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 MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	65,309 Da
OMIM	605983
3D Structure	ModBase 3D Structure for P30153
Immunogen	PPP2R1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 454-481 amino acids from the C-terminal region of human PPP2R1A.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-PPP2R1A antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-PPP2R1A antibody	Western Blot (WB), FLISA
Application Notes for anti-PPP2R1A antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-PPP2R1A antibody	This gene encodes a constant regulatory subunit of protein phosphatase 2. 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 constant regulatory subunit A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. This gene encodes an alpha isoform of the constant regulatory subunit A. Alternatively spliced transcript variants have been described. [provided by RefSeq].

Product References and Citations for anti-PPP2R1A antibody	Jones, S., et al. Science 330(6001):228-231(2010). Schmitz, M.H., et al. Nat. Cell Biol. 12(9):886-893(2010). Heikkinen, P.T., et al. J. Biol. Chem. 285(6):3740-3749(2010). Dupont, W.D., et al. Cancer 116(1):8-19(2010). Wang, Q., et al. Neoplasia 11(10):1012-1021(2009).
Other Notes	Small volumes of anti-PPP2R1A 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 PPP2R1A purchase	MBS6336651 is an antibody targeting PPP2R1A. Also known as PPP2R1A, CT (PPP2R1A, Serine/threonine-protein phosphatase 2A 65kD regulatory subunit A alpha isoform, Medium tumor antigen-associated 61kD protein, PP2A subunit A isoform PR65-alpha, PP2A subunit A isoform R1-alpha) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP2R1A. It may not necessarily be applicable to this product.

NCBI GI #	21361399
NCBI GeneID	5518
NCBI Accession #	NP_055040.2
UniProt Primary Accession #	P30153
UniProt Secondary Accession #	Q13773; Q6ICQ3; Q96DH3
UniProt Related Accession #	P30153
GenBank Nucleotide #	NM_014225.5
NCBI Official Full Name	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform
NCBI Official Synonym Full Names	protein phosphatase 2 regulatory subunit A, alpha
NCBI Official Symbol	PPP2R1A
NCBI Official Synonym Symbols	MRD36; PR65A; PP2AAALPHA; PP2A-Aalpha
UniProt Protein Name	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform
UniProt Synonym Protein Names	Medium tumor antigen-associated 61 kDa protein; PP2A subunit A isoform PR65-alpha; PP2A subunit A isoform R1-alpha
UniProt Gene Name	PPP2R1A
UniProt Entry Name	2AAA_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform

UniProt Comments for PPP2R1A	PPP2R1A: The PR65 subunit of protein phosphatase 2A serves as a scaffolding molecule to coordinate the assembly of the catalytic subunit and a variable regulatory B subunit. Required for proper chromosome segregation and for centromeric localization of SGOL1 in mitosis. Found in a complex with at least ARL2, PPP2CB, PPP2R1A, PPP2R2A, PPP2R5E and TBCD. PP2A consists of a common heterodimeric core enzyme, composed of PPP2CA a 36 kDa catalytic subunit (subunit C) and PPP2R1A a 65 kDa constant regulatory subunit (PR65 or subunit A), that associates with a variety of regulatory subunits. Proteins that associate with the core dimer include three families of regulatory subunits B (the R2/B/PR55/B55, R3/B''/PR72/PR130/PR59 and R5/B'/B56 families), the 48 kDa variable regulatory subunit, viral proteins, and cell signaling molecules. Interacts with IPO9. Interacts with TP53 and SGOL1. Interacts with PLA2G16; this interaction might decrease PP2A activity. Belongs to the phosphatase 2A regulatory subunit A family. Protein type: Motility/polarity/chemotaxis; Protein phosphatase, regulatory subunit Chromosomal Location of Human Ortholog: 19q13.41 Cellular Component: chromosome, pericentric region; cytosol; protein phosphatase type 2A complex Molecular Function: antigen binding; protein binding; protein heterodimerization activity; protein phosphatase regulator activity Biological Process: apoptosis; chromosome segregation; G2/M transition of mitotic cell cycle; mitotic nuclear envelope reassembly; mRNA catabolic process, nonsense-mediated decay; protein amino acid dephosphorylation; protein complex assembly Disease: Mental Retardation, Autosomal Dominant 36
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