2AAA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	2AAA, Polyclonal Antibody
Full Product Name	2AAA Rabbit Polyclonal Antibody
Product Gene Name	anti-2AAA antibody
Product Synonym Gene Name	PPP2R1A
Product Synonym Names	BH6842; Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform (Medium tumor antigen-associated 61 kDa protein)(PP2A subunit A isoform PR65-alpha)(PP2A subunit A isoform R1-alpha)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	2AAA Polyclonal Antibody detects endogenous levels of protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	65,309 Da
OMIM	605983
3D Structure	ModBase 3D Structure for P30153
Immunogen	Synthesized peptide derived from human protein. at AA range: 500-580
Modification	Unmodified/Total
Applications Tested/Suitable for anti-2AAA antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-2AAA antibody	WB: 1:500-2000 ELISA: 1:5000-20000
Related Product Information for anti-2AAA 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, Apr 2010]
Other Notes	Small volumes of anti-2AAA 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 2AAA purchase	MBS9513179 is an antibody targeting 2AAA. Also known as 2AAA Rabbit Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for 2AAA. 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 2AAA	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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