CDK5RAP2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDK5RAP2, Polyclonal Antibody
Full Product Name	CDK5RAP2 Polyclonal Antibody
Product Gene Name	anti-CDK5RAP2 antibody
Product Synonym Names	C48; Cep215; MCPH3
Immunogen Sequence	GQRLLAEMDI QTQEAPSSTS QELGTKGPHP APLSKFVSSV STAKLTLEEA YRRLKLLWRV SLPEDGQCPL HCEQIGEMKA EVTKLHKKLF EQEKKLQNTM KLLQLSKRQE KVIFDQLVVT HKILRKARGN LELRPGGAHP GTCSPSRPGS
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	206kDa/210kDa/211kDa/215kDa
OMIM	AB046853 mRNA
3D Structure	ModBase 3D Structure for Q96SN8
Immunogen	Recombinant protein of human CDK5RAP2
Immunogen Species	Human
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Cellular Location	Cytoplasm, Golgi apparatus, centrosome, cytoskeleton, microtubule organizing center
Product Categories/Family for anti-CDK5RAP2 antibody	Polyclonal Antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CDK5RAP2 antibody	Western Blot (WB)
Application Notes for anti-CDK5RAP2 antibody	WB: 1:200 - 1:2000
Related Product Information for anti-CDK5RAP2 antibody	This gene encodes a regulator of CDK5 (cyclin-dependent kinase 5) activity. The protein encoded by this gene is localized to the centrosome and Golgi complex, interacts with CDK5R1 and pericentrin (PCNT), plays a role in centriole engagement and microtubule nucleation, and has been linked to primary microcephaly and Alzheimer's disease. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-CDK5RAP2 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 CDK5RAP2 purchase	MBS9135462 is an antibody targeting CDK5RAP2. Also known as CDK5RAP2 Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK5RAP2. It may not necessarily be applicable to this product.

NCBI GI #	58535453
NCBI GeneID	55755
NCBI Accession #	NP_001011649.1
UniProt Primary Accession #	Q96SN8
UniProt Secondary Accession #	Q5JV18; Q7Z3L4; Q7Z3U1; Q7Z7I6; Q9BSW0; Q9H6J6; Q9HCD9; Q9NV90; Q9UIW9
UniProt Related Accession #	Q96SN8
GenBank Nucleotide #	NM_001011649.2
NCBI Official Full Name	CDK5 regulatory subunit-associated protein 2 isoform b
NCBI Official Synonym Full Names	CDK5 regulatory subunit associated protein 2
NCBI Official Symbol	CDK5RAP2
NCBI Official Synonym Symbols	C48; MCPH3; Cep215
UniProt Protein Name	CDK5 regulatory subunit-associated protein 2
UniProt Synonym Protein Names	CDK5 activator-binding protein C48; Centrosome-associated protein 215
Protein Family	CDK5 regulatory subunit-associated protein
UniProt Gene Name	CDK5RAP2
UniProt Synonym Gene Names	CEP215; KIAA1633
NCBI Protein Information	CDK5 regulatory subunit-associated protein 2
UniProt Comments for CDK5RAP2	Potential regulator of CDK5 activity via its interaction with CDK5R1. Negative regulator of centriole disengagement (licensing) which maintains centriole engagement and cohesion. Involved in regulation of mitotic spindle orientation (). Plays a role in the spindle checkpoint activation by acting as a transcriptional regulator of both BUBR1 and MAD2 promoter. Together with MAPRE1, it may promote microtubule polymerization, bundle formation, growth and dynamics at the plus ends. Regulates centrosomal maturation by recruitment of a gamma-tubulin ring complex onto centrosomes (PubMed:26485573).
Research Articles on CDK5RAP2	**1.** Data suggest that CDK5RAP2 and CEP170 both interact with microtubule nucleation-promoting region of AKAP350A; CEP68 interacts with distal C-terminal region of AKAP350A; AKAP350A spans the bridge between centrioles. (CDK5RAP2 = CDK5 regulatory subunit associated protein 2; CEP170 = centrosomal protein 170kDa; AKAP350A = A kinase (PRKA) anchor protein (yotiao) 9; CEP68 = centrosomal protein 68kDa)
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