CDK5R1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDK5R1, Monoclonal Antibody
Full Product Name	CDK5R1 (Cyclin-dependent Kinase 5 Activator 1, CDK5 Activator 1, Cyclin-dependent Kinase 5 Regulatory Subunit 1, TPKII Regulatory Subunit, CDK5R, NCK5A) (MaxLight 750)
Product Gene Name	anti-CDK5R1 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	4G11
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDK5R1.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34,060 Da
Immunogen	Partial recombinant corresponding to aa208-308 from CDK5R1 (AAH20580) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	CRDVISSEVGSDHELQAVLLTCLYLSYSYMGNEISYPLKPFLVESCKEAFWDRCLSVINLMSSKMLQINADPHYFTQVFSDLKNESGQEDKKRLLLGLDR
Conjugate	MaxLight750
Product Categories/Family for anti-CDK5R1 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDK5R1 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CDK5R1 antibody	IF: 10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CDK5R1 antibody	MBS6232076 is an antibody targeting CDK5R1. Also known as CDK5R1 (Cyclin-dependent Kinase 5 Activator 1, CDK5 Activator 1, Cyclin-dependent Kinase 5 Regulatory Subunit 1, TPKII Regulatory Subunit, CDK5R, NCK5A) (MaxLight 750). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-CDK5R1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK5R1. It may not necessarily be applicable to this product.

NCBI GI #	34191025
NCBI GeneID	8851
NCBI Accession #	BC020580
NCBI Related Accession #	AAH20580
UniProt Secondary Accession #	Q5U0G3; E1P664
UniProt Related Accession #	Q15078
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase 5, regulatory subunit 1 (p35), mRNA
NCBI Official Synonym Full Names	cyclin dependent kinase 5 regulatory subunit 1
NCBI Official Symbol	CDK5R1
NCBI Official Synonym Symbols	p23; p25; p35; CDK5R; NCK5A; CDK5P35; p35nck5a
Protein Family	Cyclin-dependent kinase 5 activator
NCBI Protein Information	cyclin-dependent kinase 5 activator 1
NCBI Summary for CDK5R1	The protein encoded by this gene (p35) is a neuron-specific activator of cyclin-dependent kinase 5 (CDK5); the activation of CDK5 is required for proper development of the central nervous system. The p35 form of this protein is proteolytically cleaved by calpain, generating a p25 form. The cleavage of p35 into p25 results in relocalization of the protein from the cell periphery to nuclear and perinuclear regions. P25 deregulates CDK5 activity by prolonging its activation and changing its cellular location. The p25 form accumulates in the brain neurons of patients with Alzheimer's disease. This accumulation correlates with an increase in CDK5 kinase activity, and may lead to aberrantly phosphorylated forms of the microtubule-associated protein tau, which contributes to Alzheimer's disease. [provided by RefSeq, Jul 2008]
Research Articles on CDK5R1	**1.** Under cell-free in vitro conditions, p35 is covalently modified by SUMO1. SUMO2 is conjugated to p35 in cells. The 2 major SUMO acceptor lysines in p35 are K246 and K290. Different degrees of oxidative stress resulted in differential p35 sumoylation.
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