CDK9 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDK9, Monoclonal Antibody
Full Product Name	CDK9 (Cyclin-dependent Kinase 9, C-2K, Cell Division Cycle 2-like Protein Kinase 4, Cell Division Protein Kinase 9, Serine/Threonine-protein Kinase PITALRE, CDC2L4) (MaxLight 750)
Product Gene Name	anti-CDK9 antibody
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2D7
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 CDK9.
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 amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recov of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,365 Da
Immunogen	Partial recombinant corresponding to aa271-372 from human CDK9 (AAH01968) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	QKRKVKDRLKAYVRDPYALDLIDKLLVLDPAQRIDSDDALNHDFFWSDPMPSDLKGMLSTHLTSMFEYLAPPRRKGSQITQQSTNQSRNPATTNQTEFER
Conjugate	MaxLight750
Product Categories/Family for anti-CDK9 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDK9 antibody	FLISA, Western Blot (WB)
Application Notes for anti-CDK9 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDK9 antibody	CDK9 (cyclin-dependent kinase 9, serine/threonine-protein kinase PITALRE) is a member of the cell division cycle 2 (CDC2) family of kinases that play pivotal role in the regulation of the eukaryotic cell cycle. CDK9 expression is ubiquitous, but its expression levels are different in various human tissues. CDK9 is localized primarily to the nucleus. At pathophysiological levels, CDK9 activity suppresses many genes for mitochondrial proteins including mas regulators of mitochondrial function (peroxisome proliferator-activated receptor gamma coactivator 1 (PGC-1), nuclear respiratory factor-1). Chronic activation of CDK9 causes not only cardiomyocyte enlargement but also defective mitochondrial function. The cyclinT/CDK9 complex, also called positi transcription elongation factor b (p-TEFb), phosphorylates the C-terminal domain of the large subunit of RNA polymerase II, stimulating transcription elongation and pre-mRNA processing.

Other Notes	Small volumes of anti-CDK9 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 and additional dry ice fee may apply.
Searchable Terms for CDK9 purchase	MBS6232080 is an antibody targeting CDK9. Also known as CDK9 (Cyclin-dependent Kinase 9, C-2K, Cell Division Cycle 2-like Protein Kinase 4, Cell Division Protein Kinase 9, Serine/Threonine-protein Kinase PITALRE, CDC2L4) (MaxLight 750). Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK9. It may not necessarily be applicable to this product.

NCBI GI #	12805028
NCBI GeneID	1025
NCBI Accession #	BC001968
NCBI Related Accession #	AAH01968
UniProt Secondary Accession #	Q5JU24; Q5JU25; Q5U006; Q96TF1
UniProt Related Accession #	P50750
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase 9, mRNA
NCBI Official Synonym Full Names	cyclin dependent kinase 9
NCBI Official Symbol	CDK9
NCBI Official Synonym Symbols	TAK; C-2k; CTK1; CDC2L4; PITALRE
Protein Family	Cyclin-dependent kinase
NCBI Protein Information	cyclin-dependent kinase 9
NCBI Summary for CDK9	The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2, and known as important cell cycle regulators. This kinase was found to be a component of the multiprotein complex TAK/P-TEFb, which is an elongation factor for RNA polymerase II-directed transcription and functions by phosphorylating the C-terminal domain of the largest subunit of RNA polymerase II. This protein forms a complex with and is regulated by its regulatory subunit cyclin T or cyclin K. HIV-1 Tat protein was found to interact with this protein and cyclin T, which suggested a possible involvement of this protein in AIDS. [provided by RefSeq, Jul 2008]
Research Articles on CDK9	**1.** Systematic Determination of Human CDK9 Interactome Identifies Novel Functions in RNA Splicing Mediated by the DDX5 and DDX17 RNA Helicases
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