CDK3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDK3, Monoclonal Antibody
Full Product Name	CDK3 (Cyclin-dependent Kinase 3, Cell Division Protein Kinase 3, CDKN3) (MaxLight 750)
Product Gene Name	anti-CDK3 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3C12
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 CDK3.
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	37.4kDa (328aa)
OMIM	123828
3D Structure	ModBase 3D Structure for Q00526
Immunogen	Partial recombinant corresponding to aa206-305 from human CDK3 (NP_001249) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	DSEIDQLFRIFRMLGTPSEDTWPGVTQLPDYKGSFPKWTRKGLEEIVPNLEPEGRDLLMQLLQYDPSQRITAKTALAHPYFSSPEPSPAARQYVLQRFRH
Conjugate	MaxLight750
Product Categories/Family for anti-CDK3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDK3 antibody	FLISA, Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-CDK3 antibody	IHC-P: 3ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CDK3 antibody	MBS6232075 is an antibody targeting CDK3. Also known as CDK3 (Cyclin-dependent Kinase 3, Cell Division Protein Kinase 3, CDKN3) (MaxLight 750). Reactive in Human. Host: Mouse.

Other Notes	Small volumes of anti-CDK3 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 CDK3. It may not necessarily be applicable to this product.

NCBI GI #	4557439
NCBI GeneID	1018
NCBI Accession #	NP_001249
UniProt Primary Accession #	Q00526
UniProt Related Accession #	Q00526
GenBank Nucleotide #	NM_001258
NCBI Official Full Name	cyclin-dependent kinase 3
NCBI Official Synonym Full Names	cyclin dependent kinase 3
NCBI Official Symbol	CDK3
UniProt Protein Name	Cyclin-dependent kinase 3
UniProt Synonym Protein Names	Cell division protein kinase 3
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDK3
UniProt Synonym Gene Names	CDKN3
UniProt Entry Name	CDK3_HUMAN
NCBI Protein Information	cyclin-dependent kinase 3
NCBI Summary for CDK3	This gene encodes a member of the cyclin-dependent protein kinase family. The protein promotes entry into S phase, in part by activating members of the E2F family of transcription factors. The protein also associates with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0. [provided by RefSeq, Jul 2008]
UniProt Comments for CDK3	CDK3: a protein kinase of the CDK family. May be involved in cell cycle control. Can phosphorylate histone H1. Protein type: Protein kinase, CMGC; Cell cycle regulation; EC 2.7.11.22; Protein kinase, Ser/Thr (non-receptor); Kinase, protein; CMGC group; CDK family; CDK/CDK1 subfamily; CDK1 subfamily Chromosomal Location of Human Ortholog: 17q25.1 Molecular Function: cyclin-dependent protein kinase activity; ATP binding Biological Process: mitosis; cell proliferation; G0 to G1 transition; regulation of cell cycle; cell division; protein amino acid phosphorylation; G1/S transition of mitotic cell cycle
Research Articles on CDK3	**1.** These results provided evidence supporting the oncogenic potential of NFAT3 and suggested that CDK3-mediated phosphorylation of NFAT3 has an important role in skin tumorigenesis.
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