CDK7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDK7, Polyclonal Antibody
Full Product Name	CDK7, Phosphorylated (Thr170) (Cell Division Protein Kinase 7, CDK-activating Kinase, CAK, TFIIH Basal Transcription Factor Complex Kinase Subunit, 39kD Protein Kinase, P39 Mo15, STK1, CAK1, MO15) (MaxLight 550)
Product Gene Name	anti-CDK7 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human CDK7 phosphorylated at Thr170.
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: MaxLight550 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	39,038 Da
OMIM	601955
3D Structure	ModBase 3D Structure for P50613
Immunogen	Synthetic phosphopeptide corresponding to amino acid residues surrounding Thr170 of human CDK7 (KLH).
Conjugate	MaxLight550
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-CDK7 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDK7 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CDK7 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-CDK7 antibody	MBS6468518 is an antibody targeting CDK7. Also known as CDK7, Phosphorylated (Thr170) (Cell Division Protein Kinase 7, CDK-activating Kinase, CAK, TFIIH Basal Transcription Factor Complex Kinase Subunit, 39kD Protein Kinase, P39 Mo15, STK1, CAK1, MO15) (MaxLight 550). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CDK7 antibody	1. Zhou, M., et al., Proc. Natl. Acad. Sci. USA 100(22):12666-12671 (2003). 2. Kino, T., et al., Biochem. Biophys. Res. Commun. 298(1):17-23 (2002). 3. Schneider, E., et al., Oncogene 21(33):5031-5037 (2002). 4. Nekhai, S., et al., Virology 266(2):246-256 (2000). 5. Zhou, M., et al., Mol. Cell. Biol. 20(14):5077-5086 (2000).

Other Notes	Small volumes of anti-CDK7 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 CDK7. It may not necessarily be applicable to this product.

NCBI GI #	4502743
NCBI GeneID	1022
NCBI Accession #	NP_001790
UniProt Primary Accession #	P50613
UniProt Secondary Accession #	Q9BS60; Q9UE19
UniProt Related Accession #	P50613
GenBank Nucleotide #	NM_001799
NCBI Official Full Name	cyclin-dependent kinase 7
NCBI Official Synonym Full Names	cyclin-dependent kinase 7
NCBI Official Symbol	CDK7
NCBI Official Synonym Symbols	CAK1; HCAK; MO15; STK1; CDKN7; p39MO15
UniProt Protein Name	Cyclin-dependent kinase 7
UniProt Synonym Protein Names	39 kDa protein kinase; p39 Mo15; CDK-activating kinase 1; Cell division protein kinase 7; Serine/threonine-protein kinase 1; TFIIH basal transcription factor complex kinase subunit
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDK7
UniProt Synonym Gene Names	CAK; CAK1; CDKN7; MO15; STK1; p39 Mo15
UniProt Entry Name	CDK7_HUMAN
NCBI Protein Information	cyclin-dependent kinase 7; 39 KDa protein kinase; CAK; CDK-activating kinase 1; TFIIH basal transcription factor complex kinase subunit; cell division protein kinase 7; cyclin-dependent kinase 7 (MO15 homolog, Xenopus laevis, cdk-activating kinase); homol

UniProt Comments for CDK7	CDK7: a protein kinase of the CDK family. Forms a trimeric complex with cyclin H and MAT1, which functions as a Cdk-activating kinase (CAK). Activates the cyclin-associated kinases CDK1, -2, -4 and -6. An essential component of the transcription factor TFIIH, that is involved in transcription initiation and DNA repair. Serves as a direct link between the regulation of transcription and the cell cycle. Phosphorylates and activates RNA polymerase II, allowing its escape from the promoter and elongation of the transcripts. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle. Protein type: Cell cycle regulation; Nuclear receptor co-regulator; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.22; Protein kinase, CMGC; EC 2.7.11.23; CMGC group; CDK family; CDK7 subfamily; CDK/CDK7 subfamily Chromosomal Location of Human Ortholog: 5q12.1 Cellular Component: nucleoplasm; mitochondrion; holo TFIIH complex; perinuclear region of cytoplasm; cytoplasm; nucleus Molecular Function: protein C-terminus binding; RNA polymerase subunit kinase activity; DNA-dependent ATPase activity; protein binding; androgen receptor binding; cyclin-dependent protein kinase activity; transcription coactivator activity; ATP binding; protein kinase activity Biological Process: transcription from RNA polymerase II promoter; viral reproduction; positive regulation of viral transcription; positive regulation of transcription, DNA-dependent; protein amino acid phosphorylation; regulation of gene expression, epigenetic; mRNA capping; negative regulation of gene expression, epigenetic; transcription-coupled nucleotide-excision repair; nucleotide-excision repair, DNA damage removal; G2/M transition of mitotic cell cycle; cell cycle arrest; transcription initiation from RNA polymerase II promoter; transcription from RNA polymerase I promoter; RNA elongation from RNA polymerase I promoter; DNA repair; termination of RNA polymerase I transcription; cell proliferation; nucleotide-excision repair; cell division; RNA elongation from RNA polymerase II promoter; androgen receptor signaling pathway; gene expression; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; regulation of cyclin-dependent protein kinase activity; transcription initiation from RNA polymerase I promoter; G1/S transition of mitotic cell cycle
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