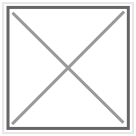
CCNK Antibody – Mouse Monoclonal

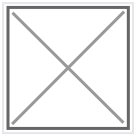
PRODUCT OVERVIEW

Product Name	CCNK, Monoclonal Antibody
Full Product Name	CCNK (Cyclin K, Cyclin-K, CPR4, MGC9113) (AP)
Product Gene Name	anti-CCNK antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3B7-1B9
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CCNK.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri
Molecular Weight	67 kDa
Chromosome Location	Chromosome: 14; NC_000014.8 (99947695..99977852). Location: 14q32
OMIM	603544
3D Structure	ModBase 3D Structure for O75909
Immunogen	Full length recombinant corresponding to aa1-354 from CCNK (AAH15935) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MKENKENSSPSVTSANLDHTKPCWYWDKKDLAHTPSQLEGLDPATEARYRREGARFIFDVGTRLGLHYDTLATGIIYFHRFYMFHSFKQFPRYVTGACCL
Conjugate	AP
Product Categories/Family for anti-CCNK antibody	Antibodies; Cyclin
Applications Tested/Suitable for anti-CCNK antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CCNK antibody	Applications are based on unconjugated antibody.

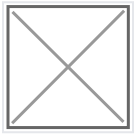
Related Product Information for anti-CCNK antibody	May play a role in transcriptional regulation. In vitro, is associated with a kinase activity toward both RNA polymerase II C-terminal domain and CDK2 (
Product References and Citations for anti-CCNK antibody	1. The human HECA interacts with cyclins and CDKs to antagonize Wnt-mediated proliferation and chemoresistance of head and neck cancer cells.Do
Other Notes	Small volumes of anti-CCNK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for CCNK purchase	MBS6130409 is an antibody targeting CCNK. Also known as CCNK (Cyclin K, Cyclin-K, CPR4, MGC9113) (AP). Reactive in Human. Host: Mouse.



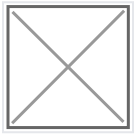
Western Blot (WB) of anti-CCNK antibody
Western Blot detection against Immunogen (65.05kD).



Western Blot (WB) of anti-CCNK antibody
CCNK monoclonal antibody Western Blot analysis of CCNK expression in PRC/PRF/5.



Western Blot (WB) of anti-CCNK antibody
Western Blot analysis of CCNK expression in transfected 293T cell line by CCNK monoclonal antibody Lane 1: CCNK transfected lysate (41kD). Lane 2: Non-transfected lysate.



Testing Data of anti-CCNK antibody
Detection limit for recombinant GST tagged CCNK is ~0.03ng/ml as a capture antibody.



Western Blot (WB) of anti-CCNK antibody
Western blot analysis of CCNK over-expressed 293 cell line, cotransfected with CCNK Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with CCNK monoclonal antibody GAPDH (36.1kD) used as specificity and loading control.

ADDITIONAL DETAILS

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

NCBI GI #	16198507
NCBI GeneID	8812
NCBI Accession #	BC015935
NCBI Related Accession #	AAH15935
UniProt Primary Accession #	O75909
UniProt Secondary Accession #	Q59FT6; Q86U16; Q96B63; Q9NNY9
UniProt Related Accession #	O75909
NCBI Official Full Name	Homo sapiens cyclin K, mRNA
NCBI Official Synonym Full Names	cyclin K
NCBI Official Symbol	CCNK
NCBI Official Synonym Symbols	CPR4

UniProt Protein Name	Cyclin-K
Protein Family	Cyclin
UniProt Gene Name	CCNK
UniProt Synonym Gene Names	CPR4
UniProt Entry Name	CCNK_HUMAN
NCBI Protein Information	cyclin-K
NCBI Summary for CCNK	The protein encoded by this gene is a member of the transcription cyclin family. These cyclins may regulate transcription through their association with and activation of cyclin-dependent kinases (CDK) that phosphorylate the C-terminal domain (CTD) of the large subunit of RNA polymerase II. This gene product may play a dual role in regulating CDK and RNA polymerase II activities. [provided by RefSeq, Jul 2008]
UniProt Comments for CCNK	Function: May play a role in transcriptional regulation. In vitro, is associated with a kinase activity toward both RNA polymerase II C-terminal domain and CDK2 (CAK). Ref.9 Subunit structure: Part of a cyclin-kinase pair in the RNA polymerase II holoenzyme. Binds to CDK9. Tissue specificity: Ubiquitously expressed. Highest levels in testis. Sequence similarities: Belongs to the cyclin family. Cyclin C subfamily.
Research Articles on CCNK	**1.** Cyclin K interacts with CDK12 and CDK13 but not CDK9 in cells, and is required to maintain self-renewal in ES cells.
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Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/ccnk/6130409