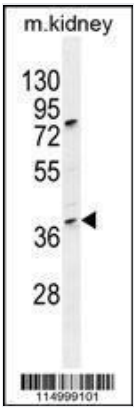
CCNH Antibody – Rabbit Polyclonal

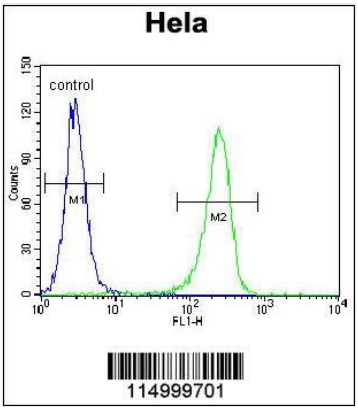
PRODUCT OVERVIEW

Product Name	CCNH, Polyclonal Antibody
Full Product Name	CCNH, NT (CCNH, Cyclin-H, MO15-associated protein, p34, p37) (Biotin)
Product Gene Name	anti-CCNH antibody
Product Synonym Names	CCNH; Cyclin-H; MO15-associated protein; p34; p37
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by saturated ammonium sulfate precipitation followed by dialysis against PBS.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	37,643 Da
OMIM	601953
3D Structure	ModBase 3D Structure for P51946
Immunogen	CCNH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 31-60 amino acids from the N-terminal region of human CCNH.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CCNH antibody	Antibodies; Cyclin
Applications Tested/Suitable for anti-CCNH antibody	Flow Cytometry (FC/FACS), ELISA (EIA), Western Blot (WB)
Application Notes for anti-CCNH antibody	FC/FACS: 1:10-50 ELISA: 1:1,000 WB: 1:50-100 Applications are based on unconjugated antibody.
Related Product Information for anti-CCNH antibody	The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. This cyclin forms a complex with CDK7 kinase and ring finger protein MAT1. The kinase complex is able to phosphorylate CDK2 and CDC2 kinases, thus functions as a CDK-activating kinase (CAK). This cyclin and its kinase partner are components of TFIIH, as well as RNA polymerase II protein complexes. They participate in two different transcriptional regulation processes, suggesting an important link between basal transcription control and the cell cycle machinery. A pseudogene of this gene is found on chromosome 4. Alternate splicing results in multiple transcript variants.

Product References and Citations for anti-CCNH antibody	Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010). Hosgood, H.D. III, et al. Respir Med 103(12):1866-1870(2009). Young, R.P., et al. Postgrad Med J 85(1008):515-524(2009). Kweekel, D.M., et al. Br. J. Cancer 101(2):357-362(2009). Sugiyama, N., et al. Mol. Cell Proteomics 6(6):1103-1109(2007).
Other Notes	Small volumes of anti-CCNH 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.
Searchable Terms for CCNH purchase	MBS6282456 is an antibody targeting CCNH. Also known as CCNH, NT (CCNH, Cyclin-H, MO15-associated protein, p34, p37) (Biotin). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-CCNH antibody
CCNH Antibody (N-term) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the CCNH antibody detected the CCNH protein (arrow).



Flow Cytometry (FC/FACS) of anti-CCNH antibody
CCNH Antibody (N-term) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

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

NCBI GI #	4502623
NCBI GeneID	902
NCBI Accession #	NP_001230
UniProt Primary Accession #	P51946
UniProt Secondary Accession #	Q53X72; Q8TBL9
UniProt Related Accession #	P51946
GenBank Nucleotide #	NM_001239.3
NCBI Official Full Name	cyclin-H isoform 1
NCBI Official Synonym Full Names	cyclin H
NCBI Official Symbol	CCNH
NCBI Official Synonym Symbols	CAK; p34; p37; CycH
UniProt Protein Name	Cyclin-H
UniProt Synonym Protein Names	MO15-associated protein; p34; p37
Protein Family	Cyclin
UniProt Gene Name	CCNH
UniProt Entry Name	CCNH_HUMAN
NCBI Protein Information	cyclin-H

UniProt Comments for CCNH	CCNH: Regulates CDK7, the catalytic subunit of the CDK- activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIIH basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive C-terminus domain (CTD) of its large subunit (POLR2A), 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. Associates primarily with CDK7 and MAT1 to form the CAK complex. CAK can further associate with the core-TFIIH to form the TFIIH basal transcription factor. Belongs to the cyclin family. Cyclin C subfamily. Protein type: Cell cycle regulation Chromosomal Location of Human Ortholog: 5q13.3-q14 Cellular Component: nucleoplasm; holo TFIIH complex; nucleus; cyclin-dependent protein kinase activating kinase holoenzyme complex Molecular Function: RNA polymerase subunit kinase activity; DNA-dependent ATPase activity; protein binding; cyclin-dependent protein kinase regulator activity; protein kinase binding Biological Process: transcription from RNA polymerase II promoter; transcription initiation from RNA polymerase II promoter; viral reproduction; positive regulation of viral transcription; RNA elongation from RNA polymerase I promoter; transcription from RNA polymerase I promoter; DNA repair; termination of RNA polymerase I transcription; regulation of gene expression, epigenetic; protein amino acid phosphorylation; mRNA capping; negative regulation of gene expression, epigenetic; nucleotide-excision repair; transcription-coupled nucleotide-excision repair; RNA elongation from RNA polymerase II promoter; nucleotide-excision repair, DNA damage removal; gene expression; positive regulation of transcription from RNA polymerase II promoter; mitotic cell cycle; regulation of cyclin-dependent protein kinase activity; G2/M transition of mitotic cell cycle; transcription initiation from RNA polymerase I promoter; G1/S transition of mitotic cell cycle
Research Articles on CCNH	**1.** Expressions of components of the CAK complex, CDK7, MAT1, and Cyclin H are elevated in breast cancer.
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