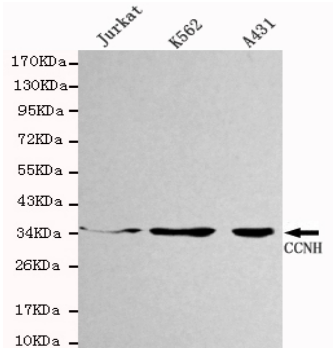
Cyclin H Antibody

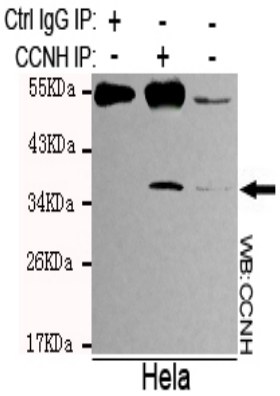
E2200542

Catalog Number:	E2200542
Size:	100ug
Host:	Mouse
Formulation:	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50%,glycerol
Sensitivity:	This antibody detects endogenous levels of CCNH(N-term) and does not cross-react with related proteins.
Entrez summary:	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.
UniPort summary Function:	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.
Immunogen:	Purified recombinant human CCNH(N-term) protein fragments expressed in E.coli.
Antibody Type:	Monoclonal antibody
Isotype:	IgG2b
Purified method:	Affinity purified
Subcellular location:	Nucleus
Reactivity:	H
Applications:	WB, IP
Molecular Weight:	38kDa
UniProt number:	P51946
GeneBank ID:	NM_001239.2
Gene symbol:	CAK; p34; p37
Alternate names:	MO15-associated protein p34 p37

For Research Use Only



Western blot detection of CCNH in Jurkat,K562&A431 cell lysates using CCNH antibody (1:1000 diluted). Predicted band size: 38KDa Observed band size: 38KDa.



Immunoprecipitation analysis of Hela cell lysates using CCNH antibody.