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Cyclin H Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52723

Product Information

Application	WB, IP
Primary Accession	P51946
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	37643

Additional Information

Gene ID	902
Other Names	6330408H09Rik;AI661354;AV102684;AW538719;CAK;CAK complex subunit;ccnh;CCNH_HUMAN;CDK activating kinase;CDK activating kinase complex subunit;Cyclin dependent kinase activating kinase;cyclin dependent kinase activating kinase complex subunit;Cyclin H; CyclinH;MO15-associated protein;p34;p36;p37.
Dilution	WB~~1:1000 IP~~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	CCNH
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-terminal 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.
Cellular Location	Nucleus.

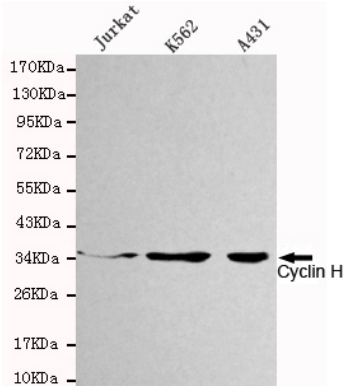
Background

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-terminal 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.

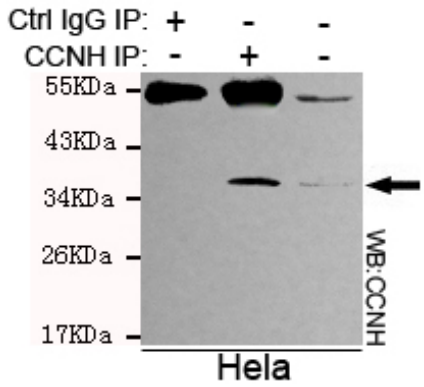
References

Maekelae T.P.,et al.Nature 371:254-257(1994).
Fisher R.P.,et al.Cell 78:713-724(1994).
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.
Shiekhattar R.,et al.Nature 374:283-287(1995).
Kershnar E.,et al.J. Biol. Chem. 273:34444-34453(1998).

Images



Western blot detection of Cyclin H in Jurkat,K562 and A431 cell lysates using Cyclin H mouse mAb (1:1000 diluted).Predicted band size: 38KDa.Observed band size: 38KDa.



Immunoprecipitation analysis of Hela cell lysates using Cyclin H mouse mAb.