

Cyclin H Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52723**Specification**

Cyclin H Antibody - Product Information

Application	IP, WB
Primary Accession	P51946
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	38 KDa

Cyclin H Antibody - 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

IP~~1:500

WB~~1:1000

Format

Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50% glycerol

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Cyclin H Antibody - 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-TFIH 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

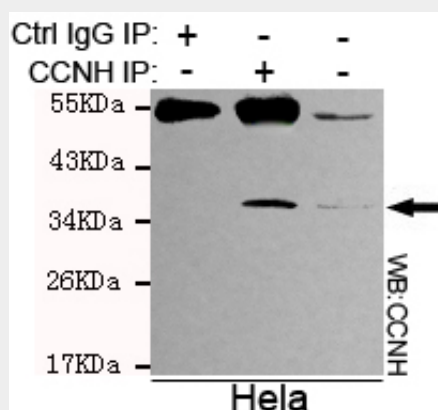
Nucleus.

Cyclin H Antibody - Protocols

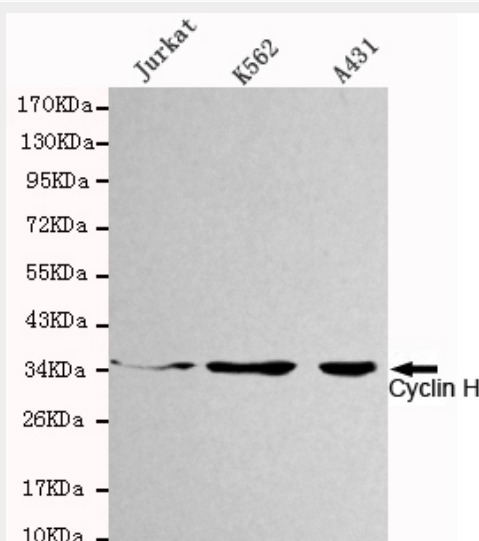
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Cyclin H Antibody - Images



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



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.

Cyclin H Antibody - 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-TFIIF 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.

Cyclin H Antibody - 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).
Kershner E.,et al.J. Biol. Chem. 273:34444-34453(1998).