10320 Camino Santa Fe, Suite G
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CCNH / Cyclin H Antibody (clone 1B8)

Mouse Monoclonal Antibody
Catalog # ALS14322

Specification

CCNH / Cyclin H Antibody (clone 1B8) - Product Information

Application	**WB, IF, IHC**
Primary Accession	P51946
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**38kDa KDa**

CCNH / Cyclin H Antibody (clone 1B8) - Additional Information

Gene ID 902

Other Names
Cyclin-H, MO15-associated protein, p34, p37, CCNH

Target/Specificity
Human Cyclin H

Reconstitution & Storage
Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions
CCNH / Cyclin H Antibody (clone 1B8) is for research use only and not for use in diagnostic or therapeutic procedures.

CCNH / Cyclin H Antibody (clone 1B8) - 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.

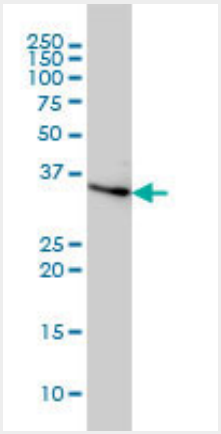
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CCNH / Cyclin H Antibody (clone 1B8) - Protocols

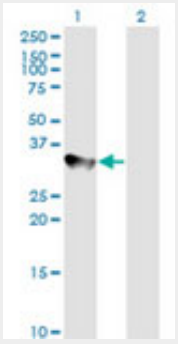
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

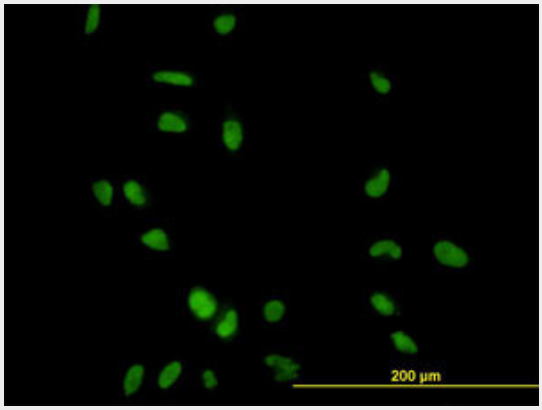
CCNH / Cyclin H Antibody (clone 1B8) - Images



Western blot of CCNH expression in HeLa cell lysate.

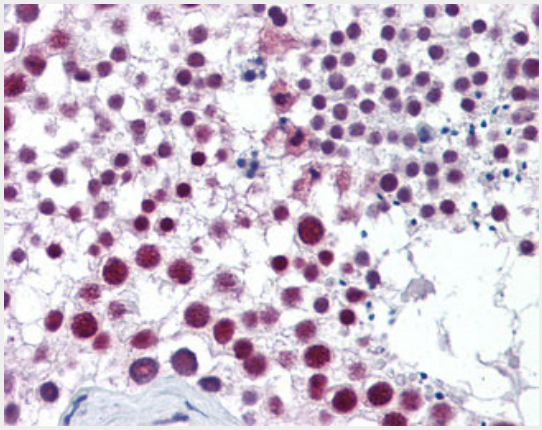


Western blot of CCNH expression in transfected 293T cell line.



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Immunofluorescence of monoclonal antibody to CCNH on HeLa cell. [antibody concentration 10 ug/ml]



Anti-CCNH / Cyclin H antibody IHC of human testis.

CCNH / Cyclin H Antibody (clone 1B8) - 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.

CCNH / Cyclin H Antibody (clone 1B8) - References

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Fisher R.P.,et al.Cell 78:713-724(1994).
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Shiekhattar R.,et al.Nature 374:283-287(1995).
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