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Cyclin H Antibody

Rabbit mAb
Catalog # AP90833

Product Information

Application	WB, IHC, IF, FC, ICC, IP, IHF
Primary Accession	P51946
Reactivity	Human, Mouse
Clonality	Monoclonal
Other Names	CAK; CCNH; CDK-activating kinase; cyclin H; cyclin-dependent kinase-activating kinase; Cyclin-H; MO15-associated protein; p34; p37;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	37643

Additional Information

Dilution	WB 1:1000~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 IP 1:50 FC 1:50
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Cyclin H
Description	Cyclin H belongs to a conserved cyclin family that plays a critical role in the regulation of cell cycle dependent kinases (CDKs) necessary for cell cycle progression. In general, the activity of CDKs requires the binding of appropriate cyclins as well as phosphorylation driven by Cdk-activating kinase (CAK). Involved in cell cycle control and in RNA transcription by RNA polymerase II.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

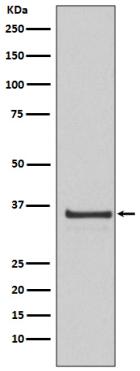
Protein Information

Name	CCNH
Function	Component of the CDK-activating kinase (CAK) complex, a master regulator of CDK activity by catalyzing the activating threonine phosphorylation of CDKs (PubMed:41100585). Binds and activates cyclin- dependent protein kinase CDK7, the catalytic subunit of CAK (PubMed:41100585). CAK activates major mediators of cell cycle control, including CDK1, CDK2, CDK4 and CDK6, and plays a key role in regulating cell cycle progression (PubMed:41100585). 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 (PubMed:7533895, PubMed:10024882). Involved in cell cycle control and in RNA transcription by RNA polymerase II (PubMed:7533895, PubMed:10024882). Its expression and activity are

constant throughout the cell cycle.

Cellular Location Nucleus.

Images



Western blot analysis of Cyclin H expression in HeLa cell lysate.

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