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# **Human Cyclin H antibody**

Catalog Number: ATGA0363

# **PRODUCT INFORMATION**

# Catalog number

ATGA0363

#### Clone No.

AT3G6

# **Product type**

Monoclonal Antibody

#### UnitProt No.

P51946

#### **NCBI Accession No.**

NP 001230

#### **Alternative Names**

CCNH, CAK, p34, p37, 6330408H09Rik, Al661354, AV102684, AW538719, CDK activating kinase, Cyclin dependent kinase activating kinase, Cyclin H, CyclinH, MO15 associated protein, P36, Cyclin-H

# **PRODUCT SPECIFICATION**

### **Antibody Host**

Mouse

#### **Reacts With**

Human

#### **Concentration**

1mg/ml (determined by BCA assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

# **Immunogen**

Recombinant human Cyclin H (1-323aa) purified from E.coli

# Isotype

IgG2b kappa

### **Purification Note**

By protein-A affinity chromatography

# **Application**

ELISA, WB

#### **Usage**

The antibody has been tested by ELISA, Western blot analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended starting dilution for Western blot analysis is 1:1000.



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### **Storage**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# **BACKGROUND**

### **Description**

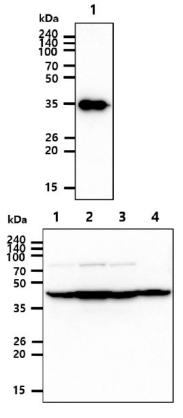
The protein encoded by this gene belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns 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.

#### **General References**

Jeang KT., et al. (1998) J Biomed Sci. 5(1): 24-27. Yankulov K., et al. (1998) Current Biology. 8(13): 447-449.

# **DATA**

# Western blot analysis (WB)



The recombinant proteins (25ng) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cyclin H antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: Recombinant Human Cyclin H.

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cyclin H antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1.: HepG2 cell lysate Lane 2.: Jurkat cell lysate Lane 3.: Ramos cell lysate Lane 4.: Balb-3T3 cell lysate

