

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, AI661354, 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