Product information

Monoclonal anti-human Cyclin H antibody (clone AT3G6)

Mouse IgG_{2b}, κ

Cat. No. IBATGA0363

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

NCBI Accession No.: NP_001230

Isotype: Mouse IgG_{2b} heavy chain and κ light chain

Clone: Anti-human Cyclin H mAb, clone AT3G6, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Cyclin H protein.

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.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

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

Application: ELISA, WB

Manufactured for:
Immuno-Biological Laboratories, Inc. (IBL-America)
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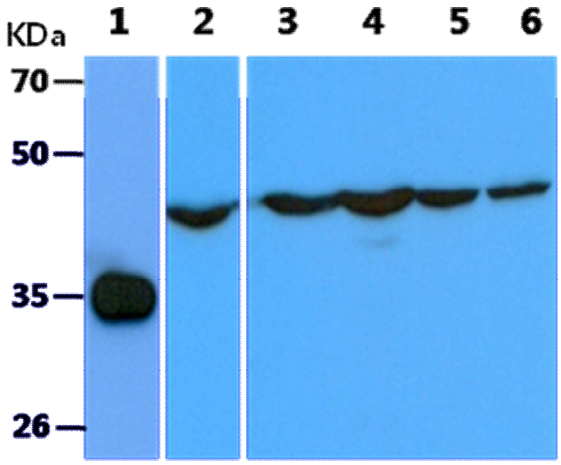
Western blot analysis

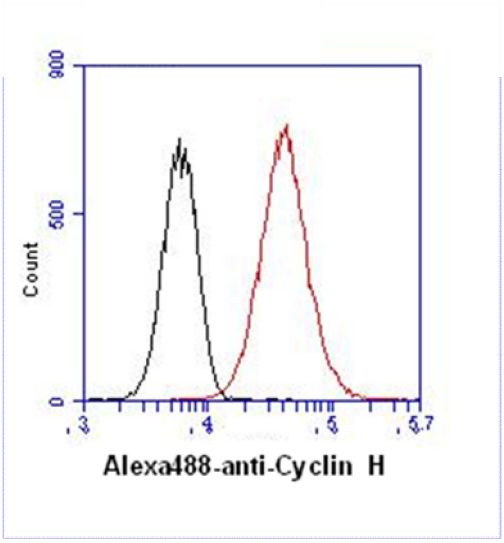
The Recombinant Human Cyclin H (25ng) and Cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Cyclin H antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Lane 1.: Recombinant Human Cyclin H
Lane 2.: HepG2 cell lysate
Lane 3.: Jurkat cell lysate
Lane 4 : Ramos cell lysate
Lane 5 : Balb/3T3 cell lysate
Lane 6 : A431 cell lysate

Flow cytometry

Flow cytometry analysis of Cyclin H in HeLa cell line, staining at 2-5ug for 1x10^{6}cells (red line). The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was mouse IgG (black line).



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.

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