

## Anti-Cyclin H

**CATALOG NO.:** XAV-8347

**SPECIES REACTIVITY:** Human

**SIZE:** 323 amino acids; MW: 37 kDa

### BACKGROUND:

Cyclin H regulates CDK7, the catalytic subunit of the CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDC2/CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. CAK complexed to the core-TFIID basal transcription factor activates RNA polymerase II by serine phosphorylation of the repetitive carboxyl-terminus domain (CTD) of its large subunit (POLR2A), allowing its escape from the promoter and elongation of the transcripts. It is involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle.

### SOURCE:

Anti-Cyclin H polyclonal antibody is produced in rabbits immunized with a synthetic KLH-conjugated peptide corresponding to the amino acid residue 304-315 of cyclin H of human origin. Rabbit Ig G is purified by Protein G/A affinity chromatography method.

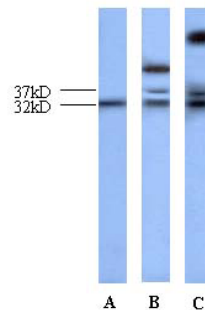
### APPLICATION:

This polyclonal antibody can be used for the detection of synthetic KLH-conjugated peptide corresponding to the amino acid residue 304-315 of cyclin H of human origin by ELISA and Western blot; ELISA at 1:75000 and Western blot at a suggested dilution at 1 µg/ml in 5% skim milk / PBS buffer, and HRP conjugated anti-Rabbit IgG should be diluted in 1: 50,000 - 100,000 as second antibody.

**This product is for research use only.**

### STORAGE:

Cyclin H antibody is supplied in PBS buffer containing 0.02% sodium azide. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycle.



Western blot analysis of Cyclin H expression in Jurkat (A), Raji (B), and 293T (C) cell lysates using anti- Cyclin H (Cat. No. XAV-8347).

### REFERENCES:

1. Maekelae, T.P., et al, 1994, Nature 371: 254-257