## Cyclin H (Phospho-Thr315) Antibody

Catalog No: #11689

Package Size: #11689-1 50ul #11689-2 100ul



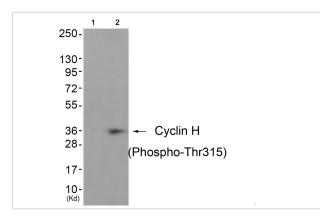
Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

Host Species Rabbit   Clonality Polyclonal   Purification Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.   Applications WB   Species Reactivity Hu Ms   Specificity The antibody detects endogenous levels of Cyclin H only when phosphorylated at threonine 315.   Immunogen Type Peptide-KLH   Immunogen Description Peptide sequence around phosphorylation site of threonine 315 (E-W-T(p)-D-D) derived from Human Cyclin H Target Name Cyclin H   Modification Phospho   Other Names cyclin H; p34; p37; MO15-associated protein;   Accession No. Swiss-Prot#: P51946; NCBI Gene#: 902; NCBI Protein#: NP_001230.1.   Uniprot P51946   GeneID 902;   SDS-PAGE MW 36kd   Concentration 1.0mg/ml   Formulation Rabbit 1gG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide ant 50% glycerol.	Description	
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and 50% glycerol.	Concentration	1.0mg/ml
Storage Store at -20°C/1 year	Formulation	
	Storage	Store at -20°C/1 year

## **Application Details**

Western blotting: 1:500~1:1000

## Images



Western blot analysis of extracts from JK cells (Lane 2), using Cyclin H (Phospho-Thr315) Antibody #11689. The lane on the left is treated with antigen-specific peptide.

## Background

Regulates CDK7, the catalytic subunit of the CDK-activating kinase (CAK) enzymatic complex. CAK activates the cyclin-associated kinases CDK1, CDK2, CDK4 and CDK6 by threonine phosphorylation. 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. Involved in cell cycle control and in RNA transcription by RNA polymerase II. Its expression and activity are constant throughout the cell cycle.

Maekelae T.P., Nature 371:254-257(1994). Fisher R.P., Cell 78:713-724(1994).

The MGC Project Team; Genome Res. 14:2121-2127(2004).

Note: This product is for in vitro research use only