

Product datasheet for **TA326887S**

Cyclin H (CCNH) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IP, WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human CCNH
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	cyclin H
Database Link:	NP_001230 Entrez Gene 902 Human P51946



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Background:

Cyclin H belongs to a conserved cyclin family that plays a critical role in the regulation of cell cycle dependent kinases (CDKs) necessary for cell cycle progression. In general, the activity of CDKs requires the binding of appropriate cyclins as well as phosphorylation driven by Cdk-activating kinase (CAK). Cyclin H is part of the CAK complex that includes the kinase CDK7, and an assembly factor p36/Mat1, which enhances binding between cyclin H and CDK7 and increases activity. CAK regulates progression through the cell cycle by activating cdc2, CDK2, and CDK4 kinases through phosphorylation of a critical threonine residue in the T-loop of the CDK-cyclin complexes. The CAK complex can exist either in its free form or in association with transcription factor IIH (TFIIH) which can affect its substrate specificity. When bound to TFIIH, CAK preferentially phosphorylates the carboxy-terminal domain of RNA polymerase II, providing a link between cell cycle control, transcriptional regulation, and DNA repair.

Synonyms:

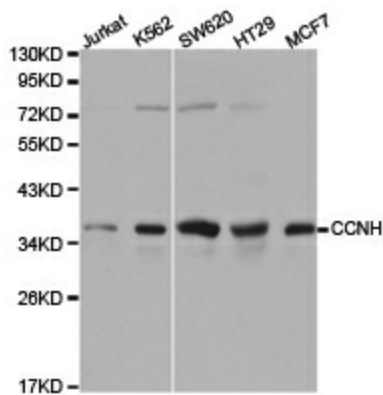
CAK; Cych; p34; p37

Protein Families:

Druggable Genome, Transcription Factors

Protein Pathways:

Cell cycle, Nucleotide excision repair

Product images:

Western blot analysis of extracts of various cell lines, using CCNH antibody.