

Product datasheet for **TA346907S**

Cyclin H (CCNH) Mouse Monoclonal Antibody [Clone ID: 4E11-G2-D7]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | 4E11-G2-D7 |
| Applications: | IP, WB |
| Recommended Dilution: | WB: 1:1000 |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG2b |
| Clonality: | Monoclonal |
| Immunogen: | The immunogen for CCNH antibody: purified recombinant human Cyclin H protein fragments expressed in E.coli. |
| Formulation: | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.02% sodium azide, 50% glycerol |
| Purification: | Affinity purified |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 38 kDa |
| Gene Name: | cyclin H |
| Database Link: | NP_001230 Entrez Gene 902 Human P51946 |



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| Background: | 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. A pseudogene of this gene is found on chromosome 4. Alternate splicing results in multiple transcript variants.[|
| Synonyms: | CAK; Cych; p34; p37 |
| Protein Families: | Druggable Genome, Transcription Factors |
| Protein Pathways: | Cell cycle, Nucleotide excision repair |