

Cyclin H monoclonal antibody

Catalog: MB66662

Host: Mouse

Reactivity: Human, Mouse

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.

Product:

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Molecular Weight:

~ 36 kDa

Swiss-Prot:

P51946

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

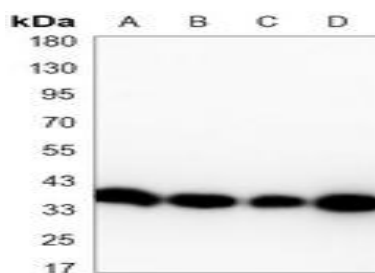
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of Cyclin H protein.

DATA:



Western blot analysis of Cyclin H expression in Jurkat (A), K562 (B), Hela (C), NIH3T3 (D) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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