

CDK7

Reactivity:Human Mouse Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Calculated MW:39kDa

Observed MW:Refer to Figures

Immunogen:

Recombinant protein of human CDK7

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

e

Synonym:

CAK1; HCAK; MO15; STK1; CDKN7; p39MO15;

Catalog #:A1694

Antibody Type:

Polyclonal Antibody

Species:Rabbit

Gene ID:1022

Isotype:IgG

Swiss Prot:P50613

Purity:Affinity purification

For research use only.

Background:

CDK-activating kinase (CAK) is a complex of CDK7 and cyclin H. The complex is involved in cell cycle regulation by phosphorylating an activating residue in the T-loop domain of cdks (1).

Regulation of CAK activity is mediated by T-loop phosphorylation and by association with MAT1, both of which enhance its kinase activity toward the CTD of RNA polymerase II (2,3) and other substrates such as p53 (4). CAK is an essential component of the transcription complex TFIIH and may interact directly with TFIIH helicases (5).

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