

## 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 cdk (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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