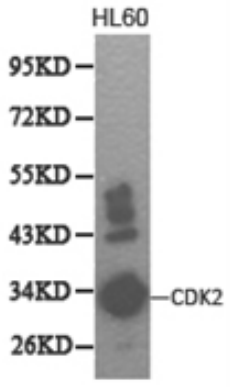
CDK2 Polyclonal Antibody

E90294

Catalog Number: E90294
Amount: 100ul, 100ug/100ul
Background: Cyclin-dependent kinase 2 (p33CDK2) is an important component of the cell cycle machinery. Like p34cdc2, kinase activity is regulated by phosphorylation state as well as association with a cyclin subunit and a CDK inhibitor. Inhibitory phosphorylation occurs on Thr14 and Tyr15 (1). Inhibition of CDK2-cyclin complexes can also be attributed to association with p27 Kip1 and p21 Waf1/Cip1 (2). Activation of CDK2 complexes requires dephosphorylation of Thr14 and Tyr15 by cdc25 phosphatase and phosphorylation of Thr160 (3), which is mediated by CAK, a complex of CDK7 and cyclin H (4). CDK2/cyclin E kinase activity is important for the G1 to S transition and phosphorylation of the Rb protein. During S-phase, active CDK2/cyclin A complexes predominate and phosphorylate E2F and the active CDK2 complex persists in the nucleus throughout G2 (5).
Calculated MW: 34kDa
Form of Antibody: Rabbit IgG in PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles.
Immunogen: Center-peptide of human CDK2
Gene ID: 1017
Synonyms: CDK2;Cell division protein kinase 2;p33(CDK2); cyclin dependent kinase 2; p33 protein kinase
Purification: Affinity purification
Reactivity: Human,Mouse,Rabbit
Applications: WB
Swiss-Prot No. : P24941
References:

1. Morgan, D.O. (1995) Nature 374, 131-134.
2. Poon, R.Y. et al. (1996) J. Biol. Chem. 271, 13283-13291.
3. Gu, Y. et al. (1992) EMBO J. 11, 3995-4005.
4. Fesquet, D. et al. (1993) EMBO J. 12, 3111-3121.
5. Morgan, D.O. (1997) Annu. Rev. Cell Dev. Biol. 13, 261-291.

WB 1:500 - 1:2000



Western blot analysis of extracts of HL60 cell ysate, using CDK2 antibody.

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