

#9868 Store at -20°C

CDK Antibody Sampler Kit

1 Kit (6 x 20 microliters)



Cell Signaling
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For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
cdc2 (POH1) Mouse mAb	9116	20 µl	34 kDa	Mouse IgG2a
CDK2 (78B2) Rabbit mAb	2546	20 µl	33 kDa	Rabbit
CDK4 (D9G3E) Rabbit mAb	12790	20 µl	30 kDa	Rabbit IgG
CDK6 (D4S8S) Rabbit mAb	13331	20 µl	36 kDa	Rabbit IgG
CDK7 (MO1) Mouse mAb	2916	20 µl	40 kDa	Mouse IgG2b
CDK9 (C12F7) Rabbit mAb	2316	20 µl	42, 55 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 µl		Horse

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The CDK Antibody Sampler Kit provides an economical means of evaluating Cdk proteins. The kit contains enough primary and secondary antibodies to perform two western blot experiments.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Background

Cyclin-dependent kinases (CDKs) are the core effectors of cell cycle progression. CDK activity is regulated through association with their cyclin partners and cyclin-dependent kinase inhibitors (CKIs) as well as by activating and inhibitory phosphorylation events. Inhibition is mediated by Wee1 and Myt1 kinases that target residues at the amino terminus of CDK1 (1,2). Dephosphorylation of these residues by cdc25 phosphatase leads to activation of CDK kinase activity (3). The CDK7/cyclinH complex is the ubiquitous mammalian CDK-activating kinase (CAK) that phosphorylates a conserved threonine residue in the T-loop domain of CDKs. The carboxy-terminal domain of RNA polymerase II is also a target of CAK as well as CDK9/cyclinT (4,5). CDK4/6 associate with cyclinD and phosphorylate retinoblastoma protein and initiate progression through the restriction point in G1 (6). CDK2 associates with cyclinE in early S phase and cyclinA later in G2. CDK1/cyclinB regulates the initiation of mitotic events (7).

Background References

1. Fattaey, A. and Booher, R.N. (1997) *Prog Cell Cycle Res* 3, 233-40.
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4. Kaldis, P. (1999) *Cell Mol Life Sci* 55, 284-96.
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6. Sherr, C.J. (1995) *Trends Biochem Sci* 20, 187-90.
7. Morgan, D.O. (1997) *Annu Rev Cell Dev Biol* 13, 261-91.

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