

CDK6 (DCS83) Mouse mAb

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

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| W | H M R | Endogenous | 36 | Mouse IgG1 | #Q00534 | 1021 |

Product Usage Information**Application**

Western Blotting

Dilution

1:2000

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.

Specificity/Sensitivity

CDK6 (DCS83) Mouse mAb detects endogenous levels of total CDK6 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant human CDK6 corresponding to amino acids 30-65.

Background

The cyclin-dependent kinases form complexes with their cyclin partners and with CDK inhibitors. CDK6 and CDK4 associate with the D-type cyclins and target the retinoblastoma protein, allowing passage through the G1/S phase restriction point (1). CDK6/cyclin D complexes are sequestered in their inactive form through binding to one of the INK4 CDK inhibitor family members (2,3). Unlike the INK4 family of CDK inhibitors, the CDK inhibitor p21 Waf1/Cip1 may enhance the association of CDK4 and CDK6 with their cyclin D partners (4).

Background References

1. Lukas, J. et al. (1996) *Mol Cell Biol* 16, 6917-25.
2. Hirai, H. et al. (1995) *Mol Cell Biol* 15, 2672-81.
3. Pestell, R.G. et al. (1999) *Endocr Rev* 20, 501-34.
4. Flores-Rozas, H. et al. (1994) *Proc Natl Acad Sci U S A* 91, 8655-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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