

#92319  
Store at +4°C**FoxM1 (D3F2B) Rabbit mAb (PE Conjugate)**

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q08050	<b>Entrez-Gene Id:</b> 2305
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**Product Usage Information****Application**

Flow Cytometry (Fixed/Permeabilized)

**Dilution**

1:50

**Storage**

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

**Specificity/Sensitivity**

FoxM1 (D3F2B) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total FoxM1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val699 of human FoxM1 protein.

**Description**

This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated FoxM1 (D3F2B) Rabbit mAb #20459.

**Background**

Forkhead box M1 (FoxM1) is a forkhead box family transcription factor that regulates a number of genes throughout the cell cycle to help control DNA replication, mitosis, and cell proliferation. FoxM1 expression increases during G1 and S and reaches maximum levels in G2/M (1-3). Nuclear translocation occurs just before entry into G2/M and is associated with FoxM1 phosphorylation (4). Phosphorylation of FoxM1 by MAPK (Ser331, Ser704), Cyclin/Cdk (Ser4, Ser35, Thr600, Thr611, Thr620, Thr627, Ser638), Plk1 (Ser715, Ser724), and Chk2 (Ser376) stabilizes and activates FoxM1 (4-8). Forkhead box M1 is expressed in all embryonic tissues but is restricted to proliferating tissues in adults (9). Research studies show that FoxM1 expression is negatively regulated by p53 (10,11). Upregulation of FoxM1 is associated with many human cancers, including prostate, breast, lung, ovary, colon, pancreas, stomach, bladder, liver, and kidney, and may be associated with p53 mutations in some tumors (11,12). As a result, FoxM1 inhibitors have become a topic of interest for potential cancer therapy (13).

**Background References**

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4. Ma, R.Y. et al. (2005) *J Cell Sci* 118, 795-806.
5. Laoukili, J. et al. (2008) *Mol Cell Biol* 28, 3076-87.
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9. Ye, H. et al. (1997) *Mol Cell Biol* 17, 1626-41.
10. Barsotti, A.M. and Prives, C. (2009) *Oncogene* 28, 4295-305.
11. Pandit, B. et al. (2009) *Cell Cycle* 8, 3425-7.
12. Pilarsky, C. et al. (2004) *Neoplasia* 6, 744-50.
13. Gartel, A.L. (2008) *Expert Opin Ther Targets* 12, 663-5.

**Species Reactivity**

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

**Applications Key**

**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key**

**H:** Human

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