Cyclin A2 (BF683) Mouse mAb



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 55	Source/Isotype: Mouse IgE	UniProt ID: #P20248	Entrez-Gene Id: 890
Product Usage Information	•	Application Western Blotting			Dilution 1:2000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Cyclin A2 (BF683) Mouse mAb detects endogenous levels of cyclin A2 and does not cross-react with other cyclins or Cyclin A1.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant human cyclin A2 protein.				
Background		While overcoming the G1/S checkpoint to commence DNA replication requires cyclin E, and traversing the G2/M checkpoint to initiate mitosis requires cyclin B to be present, cyclin A seems to be required for both S-phase and M-phase (1). A number of studies have described the ability of overexpressed cyclin A to accelerate the G1 to S transition, causing DNA replication, and cyclin A antisense DNA can prevent DNA replication (2-4). Cyclin A availability is apparently the rate-limiting step for entry into mitosis, and cyclin A is required for the completion of prophase (5). At late prophase, cyclin A may no longer be necessary as cdc2/cyclinB1 becomes active (5).				
Background References		1. Pagano, M. et al. (1992) <i>EMBO. J.</i> 11, 961-71. 2. Resnitzky, D. et al. (1995) <i>Mol. Cell. Biol.</i> 15, 4347-52. 3. d'Urso, G. et al. (1990) <i>Science</i> 250, 786-91. 4. Zindy, F. et al. (1992) <i>Biochem. Biophys. Res. Commun.</i> 182, 1144-54. 5. Furuno, N. et al. (1999) <i>J. Cell. Biol.</i> 147, 295-306.				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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				
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