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#2802

Survivin (6E4) Mouse mAb

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

Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 16	Source/Isotype: Mouse IgG1	UniProt ID: #O15392	Entrez-Gene Id: 332
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Product Usage Information	Application Western Blotting	Dilution 1:1000
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. For a carrier free (BSA and azide free) version of this product see product #83711.	
Specificity/Sensitivity	Survivin (6E4) Mouse mAb detects endogenous levels of human survivin. The antibody does not cross-react with other types of apoptotic inhibitor proteins.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human survivin.	
Background	Survivin is a 16 kDa anti-apoptotic protein highly expressed during fetal development and cancer cell malignancy (1). Survivin binds and inhibits caspase-3, controlling the checkpoint in the G2/M-phase of the cell cycle by inhibiting apoptosis and promoting cell division (2,3). This regulatory process requires the phosphorylation of survivin at Thr34 by p34 cdc2 kinase (4). Gene targeting using a Thr34 phosphorylation-defective survivin mutant, as well as antisense survivin, have been shown to inhibit tumor growth (5,6).	
Background References	<ol style="list-style-type: none"> 1. Reed, J.C. and Reed, S.I. (1999) <i>Nature Cell Biol.</i> 1, 199-200. 2. Li, F. et al. (1998) <i>Nature</i> 396, 580-584. 3. Li, F. et al. (1999) <i>Nat. Cell Biol.</i> 1, 461-466. 4. O'Connor, D.S. et al. (2000) <i>Proc. Natl. Acad. Sci. USA</i> 97, 13103-13107. 5. Olie, R.A. et al. (2000) <i>Cancer Res.</i> 60, 2805-2809. 6. Grossman, D. et al. (2001) <i>Proc. Natl. Acad. Sci. USA</i> 98, 635-640. 	
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 Mk: Monkey	
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