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#3947

## Survivin (71G4B7) Rabbit mAb (Sepharose® Bead Conjugate)

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IP	H M R	Endogenous	16	Rabbit IgG	#O15392	332
<b>Product Usage Information</b>	<b>Application</b>		<b>Dilution</b>			
	Immunoprecipitation		1:20			
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol. Store at -20°C. Do not aliquot the antibodies.					
<b>Specificity/Sensitivity</b>	Survivin (71G4B7) Rabbit mAb (Sepharose Bead Conjugate) detects endogenous levels of total survivin protein.					
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys60 of human survivin protein.					
<b>Description</b>	This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose® beads. Survivin (71G4B7) Rabbit mAb (Sepharose Bead Conjugate) is useful for immunoprecipitation assays.					
<b>Background</b>	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).					
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Reed, J.C. and Reed, S.I. (1999) <i>Nature Cell Biol.</i> 1, 199-200.</li> <li>2. Li, F. et al. (1998) <i>Nature</i> 396, 580-584.</li> <li>3. Li, F. et al. (1999) <i>Nat. Cell Biol.</i> 1, 461-466.</li> <li>4. O'Connor, D.S. et al. (2000) <i>Proc. Natl. Acad. Sci. USA</i> 97, 13103-13107.</li> <li>5. Olie, R.A. et al. (2000) <i>Cancer Res.</i> 60, 2805-2809.</li> <li>6. Grossman, D. et al. (2001) <i>Proc. Natl. Acad. Sci. USA</i> 98, 635-640.</li> </ol>					

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

**Applications Key** **IP:** Immunoprecipitation

**Cross-Reactivity Key** **H:** Human **M:** Mouse **R:** Rat

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