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## Survivin (71G4B7) Rabbit mAb (Alexa Fluor® 555 Conjugate)

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

<b>Applications:</b> IF-IC	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O15392	<b>Entrez-Gene Id:</b> 332
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Product Usage Information	Application	Dilution
<b>Storage</b>	Immunofluorescence (Immunocytochemistry)	1:50
<b>Specificity/Sensitivity</b>	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.	
<b>Source / Purification</b>	Survivin (71G4B7) Rabbit mAb (Alexa Fluor® 555 Conjugate) detects endogenous levels of total survivin protein.	
<b>Description</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys60 of human survivin protein. The antibody was conjugated to Alexa Fluor® 555 under optimal conditions with an F/P ratio of 2-6.	
<b>Background</b>	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 555 fluorescent dye and tested in-house for immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Survivin (71G4B7) Rabbit mAb #2808.	
<b>Background References</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).	
	<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** **IF-IC:** Immunofluorescence (Immunocytochemistry)

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

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