

Store at +4°C
#2866

Survivin (71G4B7) Rabbit mAb (Alexa Fluor® 647 Conjugate)


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

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #O15392	Entrez-Gene Id: 332
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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	Survivin (71G4E) Rabbit mAb (Alexa Fluor® 647 Conjugate) detects endogenous levels of total survivin protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding cysteine 60 of human survivin. The antibody was conjugated to Alexa Fluor® 647 under optimal conditions with an F/P ratio of 2-6. The Alexa Fluor® 647 dye is maximally excited by red light (e.g. 633 nm He-Ne laser). Antibody conjugates of the Alexa Fluor® 647 dye produce bright far-red-fluorescence emission, with a peak at 665 nm.	
Product Description	Cell Signaling Technology antibody is conjugated to Alexa Fluor® 647 fluorescent dye and tested in-house for direct flow cytometric analysis of human cells. The unconjugated antibody, #2808 reacts with survivin from human, mouse, and rat. CST expects that Survivin (71G4E) Rabbit mAb (Alexa Fluor® 647 Conjugate) will also recognize survivin in these species.	
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	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).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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