

Survivin (71G4B7) Rabbit mAb (Biotinylated)

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, FC-FP	H M R Mk	Endogenous	16	Rabbit IgG	#O15392	332

Product Usage Information**Application**

Western Blotting
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:100

Storage

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

Survivin (71G4B7) Rabbit mAb (Biotinylated) detects endogenous levels of total survivin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Cys60 of human survivin protein.

Description

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody exhibits the same species cross-reactivity as the unconjugated Survivin (71G4B7) Rabbit mAb #2808.

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) *Nature Cell Biol.* 1, 199-200.
2. Li, F. et al. (1998) *Nature* 396, 580-584.
3. Li, F. et al. (1999) *Nat. Cell Biol.* 1, 461-466.
4. O'Connor, D.S. et al. (2000) *Proc. Natl. Acad. Sci. USA* 97, 13103-13107.
5. Olie, R.A. et al. (2000) *Cancer Res.* 60, 2805-2809.
6. Grossman, D. et al. (2001) *Proc. Natl. Acad. Sci. USA* 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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