

Survivin Blocking Peptide

✓ 100 µg
(100 sections)



Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

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For Research Use Only. Not For Use In Diagnostic Procedures.

Description: This peptide is used to specifically block Survivin (71G4) Rabbit mAb #2808 reactivity.

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).

Quality Control: The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry. The peptide detects Survivin (71G4) Rabbit mAb #2808 by peptide dot blot.

Directions for Use: Use as a blocking reagent to evaluate the specificity of antibody reactivity by peptide dot blot protocols.

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.

Storage: Supplied in 20 mM potassium phosphate (pH 7.0), 50 mM NaCl, 0.1 mM EDTA, 1 mg/ml BSA, 5% glycerol and 1% DMSO. Store at -20°C.

For product specific protocols please see the web page for this product at www.cellsignal.com.

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