

Survivin Antibody



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

Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 16	Source/Isotype: Rabbit	UniProt ID: #O15392	Entrez-Gene Id: 332
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:100

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Survivin Antibody detects endogenous levels of total human survivin. The antibody does not cross-react with other types of apoptotic inhibitor proteins at physiological conditions.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyl terminus of human survivin. Antibodies are purified by protein A and peptide affinity chromatography.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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