

Store at -20C  
#8888

## Phospho-Survivin (Thr34) (D2E11) Rabbit mAb



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

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 16-18	Source/Isotype: Rabbit IgG	UniProt ID: #O15392	Entrez-Gene Id: 332
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	Phospho-Survivin (Thr34) (D2E11) Rabbit mAb recognizes endogenous levels of survivin protein only when phosphorylated at Thr34.	
<b>Species predicted to react based on 100% sequence homology:</b>	Monkey	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr34 of human survivin protein.	
<b>Background</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).	
<b>Background References</b>	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.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IP:</b> Immunoprecipitation
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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