

#3879 Store at -20C

Snail (C15D3) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Mk	Endogenous	29	Rabbit IgG	#O95863	6615

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	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.	
Specificity / Sensitivity	Snail (C15D3) Rabbit mAb detects endogenous levels of total Snail protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a recombinant human Snail protein. The epitope has been mapped to residues surrounding Asp36.	
Background	Snail is a zinc-finger transcription factor that can repress E-cadherin transcription. Downregulation of E-cadherin is associated with epithelial-mesenchymal transition during embryonic development, a process also exploited by invasive cancer cells (1-3). Indeed, loss of E-cadherin expression is correlated with the invasive properties of some tumors and there is a considerable inverse correlation between Snail and E-cadherin mRNA levels in epithelial tumor cell lines (4,5). In addition, Snail blocks the cell cycle and confers resistance to cell death (6). Phosphorylation of Snail by GSK-3 and PAK1 regulates its stability, cellular localization and function (7-10).	
Background References	1. Barrallo-Gimeno, A. and Nieto, M.A. (2005) <i>Development</i> 132, 3151-3161. 2. Cano, A. et al. (2000) <i>Nat. Cell Biol.</i> 2, 76-83. 3. Battle, E. et al. (2000) <i>Nat. Cell Biol.</i> 2, 84-89. 4. Yokoyama, K. et al. (2003) <i>Int. J. Oncol.</i> 22, 891-898. 5. Yokoyama, K. et al. (2001) <i>Oral Oncol.</i> 37, 65-71. 6. Vega, S. et al. (2004) <i>Genes Dev.</i> 18, 1131-1143. 7. Zhou, B.P. et al. (2004) <i>Nat. Cell Biol.</i> 6, 931-940. 8. Bachelder, R.E. et al. (2005) <i>J. Cell Biol.</i> 168, 29-33. 9. Yook, J.I. et al. (2005) <i>J. Biol. Chem.</i> 280, 11740-11748. 10. Yang, Z. et al. (2005) <i>Cancer Res.</i> 65, 3179-3184.	

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	WB: Western Blotting IP: Immunoprecipitation
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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