Revision 1

#4719 Store at -20C

Snail (SN9H2) Rat mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H Mk	Endogenous	29	Rat IgG2a	#O95863	6615

Product Usage Information

Application	Dilution
Western Blotting	1:1000

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 (SN9H2) Rat mAb detects endogenous levels of total Snail.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant human Snail protein. The epitope has been mapped to residues surrounding Ala125.

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) *Development* 132, 3151-3161.
2. Cano, A. et al. (2000) *Nat. Cell Biol.* 2, 76-83.
3. Batlle, E. et al. (2000) *Nat. Cell Biol.* 2, 84-89.
4. Yokoyama, K. et al. (2003) *Int. J. Oncol.* 22, 891-898.
5. Yokoyama, K. et al. (2001) *Oral Oncol.* 37, 65-71.
6. Vega, S. et al. (2004) *Genes Dev.* 18, 1131-1143.
7. Zhou, B.P. et al. (2004) *Nat. Cell Biol.* 6, 931-940.
8. Bachelder, R.E. et al. (2005) *J. Cell Biol.* 168, 29-33.
9. Yook, J.I. et al. (2005) *J. Biol. Chem.* 280, 11740-11748.
10. Yang, Z. et al. (2005) *Cancer Res.* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **Mk:** Monkey

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