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#3895

## Snail (L70G2) Mouse mAb

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

<b>Applications:</b> W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 29	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #O95863	<b>Entrez-Gene Id:</b> 6615
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### Product Usage Information

#### Application

Western Blotting

#### Dilution

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 (L70G2) Mouse 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 Ser111.

### 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

- Barrallo-Gimeno, A. and Nieto, M.A. (2005) *Development* 132, 3151-3161.
- Cano, A. et al. (2000) *Nat. Cell Biol.* 2, 76-83.
- Battle, E. et al. (2000) *Nat. Cell Biol.* 2, 84-89.
- Yokoyama, K. et al. (2003) *Int. J. Oncol.* 22, 891-898.
- Yokoyama, K. et al. (2001) *Oral Oncol.* 37, 65-71.
- Vega, S. et al. (2004) *Genes Dev.* 18, 1131-1143.
- Zhou, B.P. et al. (2004) *Nat. Cell Biol.* 6, 931-940.
- Bachelder, R.E. et al. (2005) *J. Cell Biol.* 168, 29-33.
- Yook, J.I. et al. (2005) *J. Biol. Chem.* 280, 11740-11748.
- 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

### Applications Key

**W:** Western Blotting

### Cross-Reactivity Key

**H:** Human **M:** Mouse **R:** Rat

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