

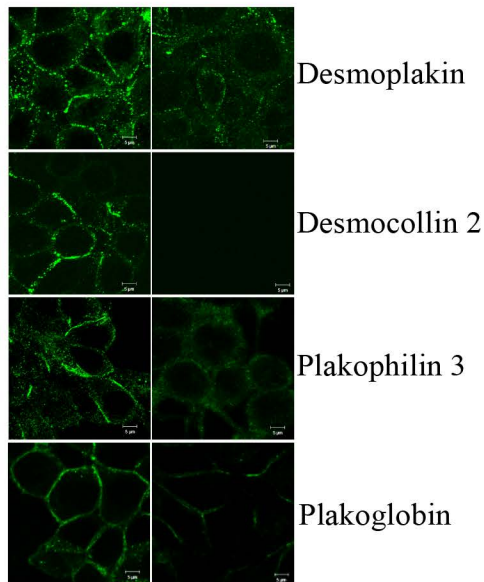
**14-3-3 $\sigma$  loss leads to activation of the epithelial to mesenchymal transition due to the stabilization of c-Jun.**

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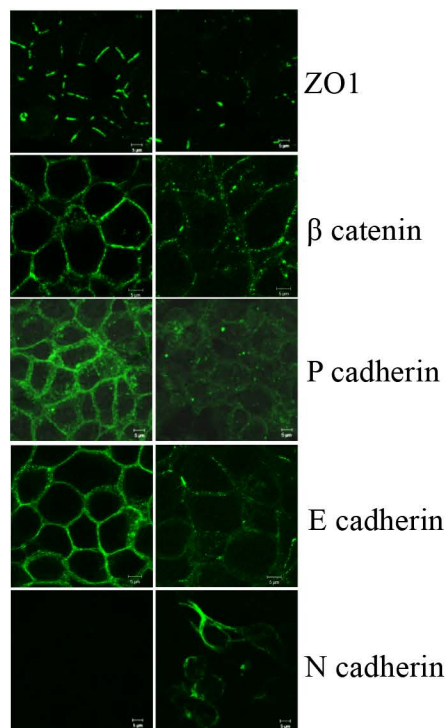
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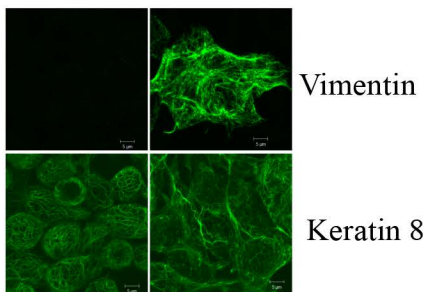
**Supplemental materials**

A 14-3-3 $\sigma$ <sup>+/+</sup>14-3-3 $\sigma$ <sup>-/-</sup>

B

14-3-3 $\sigma$ <sup>+/+</sup>14-3-3 $\sigma$ <sup>-/-</sup>

C

14-3-3 $\sigma$ <sup>+/+</sup>14-3-3 $\sigma$ <sup>-/-</sup>

**Supplemental figure legend**

**Supplemental figure S1.** Loss of 14-3-3 $\sigma$  does not lead to change in the localization of the adhesion proteins. *A-C*, 14-3-3 $\sigma^{-/-}$  and 14-3-3 $\sigma^{+/+}$  cells were fixed and stained with the indicated antibodies followed by confocal microscopy. Micrographs for desmosomal proteins (*A*), adherens junction proteins (*B*) and intermediate filament proteins (*C*) are shown in the figure. Magnification is X63 with 2X optical zoom and bars indicate 5 $\mu$ m.

**Supplemental table 1. Oligonucleotide sequences for generation of site directed mutants of c-Jun.**

Point mutant	Sequence
c JUN S58A FWD	gcgccaagaacGCGgacctcctca
c JUN S58A REV	tgaggaggtcCGCgttcttggcgc
c JUN S267A FWD	gcatcgetgccGCCaagtgccgaaa
c JUN S267A REV	ttcggcacttGGCggcagcgatgc

**Supplemental table 2. List of antibodies used for Western blot experiments along with the appropriate dilution.**

Antibody	Supplier	Dilution
Plakophilin3	Zymed	1:2000
Desmoglein2	Zymed	1:500
Desmocollin2/3	Zymed	1:500
DP-200	Abexome	1:1000
Plakoglobin	Abcam	1:500
Vimentin	Sigma	1:5000
N cadherin	BD Biosciences	1:100
Cytokeratin 8	Sigma	1:5000
Cytokeratin 18	Sigma	1:5000
Snail	Santa Cruz	1:100
Slug	Santa Cruz	1:100
Zeb1	Santa Cruz	1:100
c-Jun	Abcam	1:100
ZO1	Zymed	1:100
E cadherin	BD Biosciences	1:500
$\beta$ catenin	Abcam	1:500
Laminin A	Abcam	1:2000
$\alpha$ tubulin	Abcam	1:1500
Flag	Sigma	1:2000
GST	Sigma	1:1000
Ubiquitin	Millipore	1:1000
anti-Myc	Santa Cruz	1:2000
$\beta$ -actin	Sigma	1:5000
14-3-3 $\sigma$	Hybridoma supernatant CS112	1:10
HA	12CA5 hybridoma supernatant	1:10

**Supplemental table 3. Oligonucleotide sequences for quantitative real time PCR.**

Gene	Sequence
E cadherin 5'	GCAGGTCTCCTCTTGGCTCTG
E cadherin 3'	TGTGCCCACTTTGAATCGG
Desmoplakin I 5'	GCTGATTAATGATTTACAG
Desmoplakin I 3'	CACCAGAAGGCTCTCTCTTTC
Desmoplakin II 5'	AAGGTTGAGGGTTCTACTGC
Desmoplakin II 3'	TTGTCTTGCTCCAGGACTT
Desmocollin 2 5'	GTTTTACTCAGCCCCGTCTTG
Desmocollin 2 3'	GCCCATCTTCTTCTTGTCGT
Desmoglein 2 5'	TACGCCCTGCTGCTTCTCC
Desmoglein 2 3'	TCTCCCTCCC GAAGAGCCACG
ZO1 5'	CAAGAGCACAGCAATGGAGGA
ZO1 3'	TCCCCACTCTGAAAATGAGGA
$\beta$ catenin 5'	AGTGCTGAAGGTGCTATCTGT
$\beta$ catenin 3'	GAACAAGAGTCCCAAGGAGAC
Plakoglobin 5'	CTACGGCAACCAGGAGAGC
Plakoglobin 3'	GGGACACACGGATAGCACCT
Slug RT5'	AGACCCCA TGCCA TTGAAG
Slug RT3'	GGCCAGCCCAGAAAAAGTTG
Snail RT5'	TAGCGAGTGGTCTTCTGCG
Snail RT3'	AGGGCTGCTGGAAGGTAAAC
Twist 1 RT5'	AGCTGAGCAAGATTCAGACCC
Twist 1 RT3'	GCAGCTTGCCATCTTGGAGT
Zeb 1 RT5'	AGGA TGACCTGCCAACAGAC
Zeb 1 RT3'	CTTCAGGCCCCAGGATTTCTT