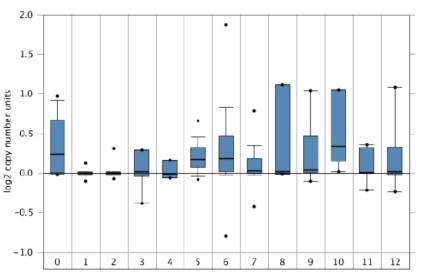
MDA-9/Syntenin (SDCBP) modulates small GTPases RhoA and Cdc42 via transforming growth factor β1 to enhance epithelial-mesenchymal transition in breast cancer

Supplementary Material

SDCBP Copy Number in TCGA Breast 2

Grouped by Cancer and Normal Type



Legend

- 0. No value (23)
- 1. Blood (702)
- 2. Breast (111)
- 3. Ductal Breast Carcinoma (5)
- 4. Invasive Ductal and Invasive Lobular Breast 11. Mixed Lobular and Ductal Breast

- 5. Invasive Ductal and Lobular Carcinoma (14) 12. Mucinous Breast Carcinoma (9)
- Carcinoma (9)
- 6. Invasive Ductal Breast Carcinoma (639)

TCGA Breast 2

No Associated Paper 2012/02/29

1,602 samples

18,823 measured genes

7. Invasive Lobular Breast Carcinoma (71)

8. Invasive Papillary Breast Carcinoma (3)

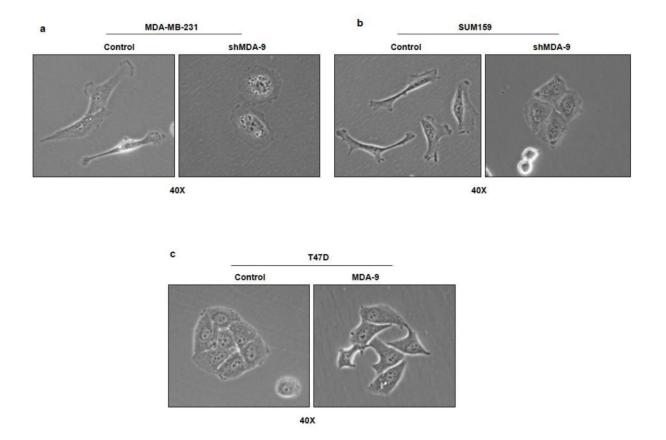
9. Male Breast Carcinoma (9)

10. Medullary Breast Carcinoma (4)

SDCBP Information Reporter Information

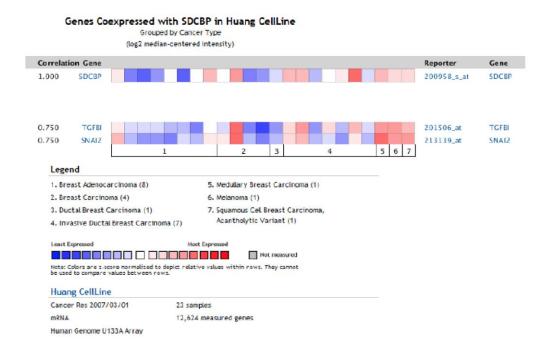
RefSeq Genes (UCSC refGene, July 2009, hg18, NCBI 36.1, March

Supplementary Figure 1. DNA copy number of MDA-9 is elevated in human breast cancer patients. Histogram from TCGA database in Oncomine demonstrating MDA-9 copy number elevation in breast tumors compared to normal breast.



Supplementary Figure 2. Modulation of MDA-9 expression causes changes in cell shape.

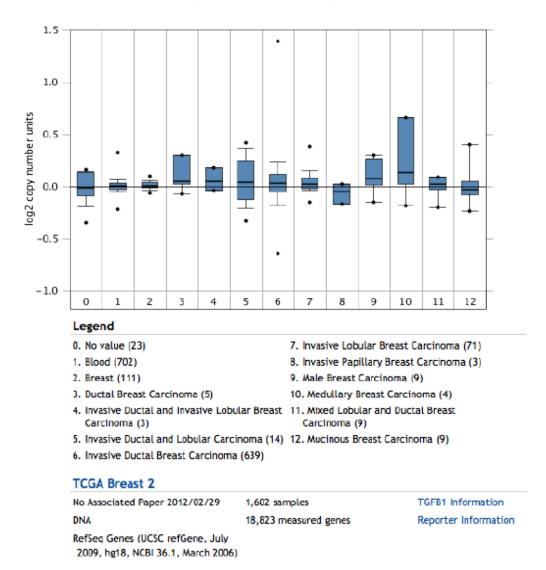
Representative images showing change in morphology in 2-dimensional culture on plastic plates following silencing MDA-9 expression in MDA-MB-231 and SUM159 and overexpressing MDA-9 in T47D cells.



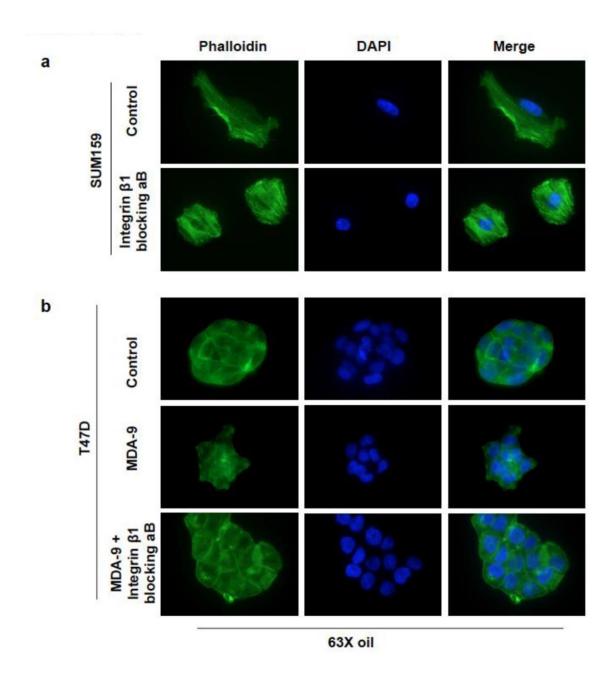
Supplementary Figure 3. MDA-9 and TGFβ1 are co-expressed in breast cancer patient samples. Correlation data from TCGA database in Oncomine demonstrating that MDA-9, TGFβ1 and SNAI2 (also known as Slug, a key EMT marker) genes are coexpressed in breast cancer patient samples.

TGFB1 Copy Number in TCGA Breast 2

Grouped by Cancer and Normal Type



Supplementary Figure 4. DNA copy number of TGFβ1 is elevated in in human breast cancer patients. Histogram from TCGA database in Oncomine demonstrating TGFβ1 copy number elevation in breast tumors compared to normal breast in the same sample set assessed for MDA-9 expression in Supplementary Figure 1.



Supplementary Figure 5. Integrin β1 regulates cytoskeletal reorganization

(a) Representative images showing change in cytoskeletal reorganization following addition of Integrin $\beta 1$ blocking antibody in SUM159 cells. (b) Representative images showing change in cytoskeletal reorganization following overexpression of MDA-9 that was restored upon addition of Integrin $\beta 1$ blocking antibody.