

Integrin $\alpha 3\beta 1$ Represses Reelin Expression in Breast Cancer Cells to Promote Invasion

Abibatou Ndoye, Rakshitha Pandulal Miskin and C. Michael DiPersio

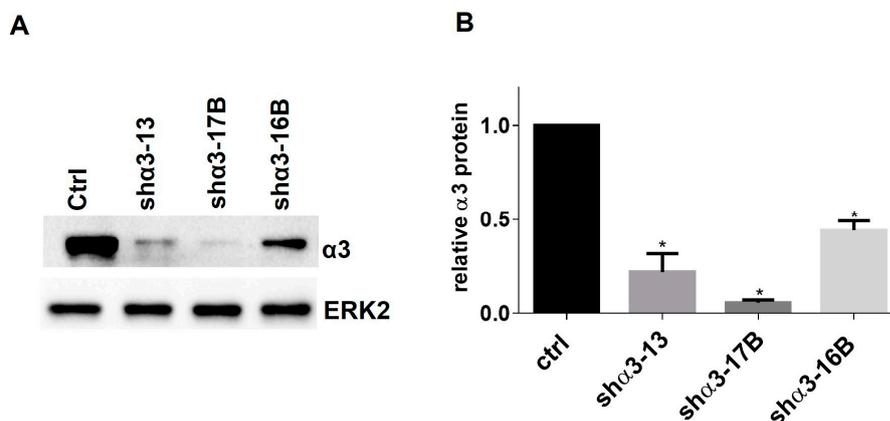


Figure S1. Measurement of $\alpha 3$ protein in $\alpha 3$ -expressing and $\alpha 3$ -deficient MDA-MB-231 cells. **A.** Representative western blot (non-reducing) of $\alpha 3$ in MDA-MB-231 cells transduced with control shRNA (ctrl) or three distinct $\alpha 3$ -targeting shRNAs (sh $\alpha 3$ -13, sh $\alpha 3$ -17B, sh $\alpha 3$ -16B); control, ERK2. **B.** Graph shows the quantification of $\alpha 3$ protein; data normalized to ERK protein levels. Data are average \pm SEM, $n=3$; * $p \leq 0.05$; multiple t-test comparison with Sidak-Bonferroni correction.

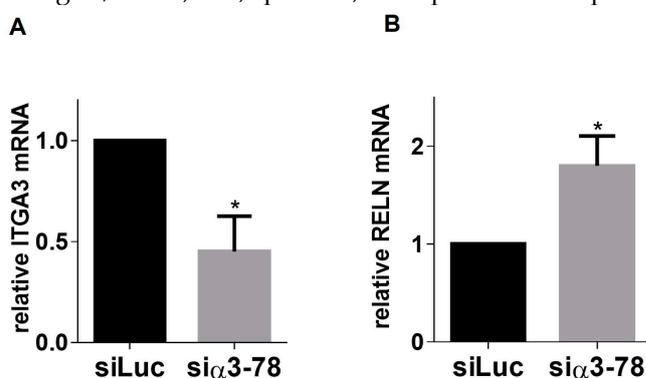


Figure S2. Measurement of RELN mRNA in SUM159 cells upon siRNA-mediated knockdown of ITGA3. **A, B.** qRT-PCR was performed to compare ITGA3 mRNA (A) or RELN mRNA (B) in SUM159 cells transfected with control siRNA (siLuc) or siRNA that targets $\alpha 3$ mRNA (si $\alpha 3$ -78). Data are average \pm SEM, $n=3$; * $p \leq 0.05$, unpaired t-test.

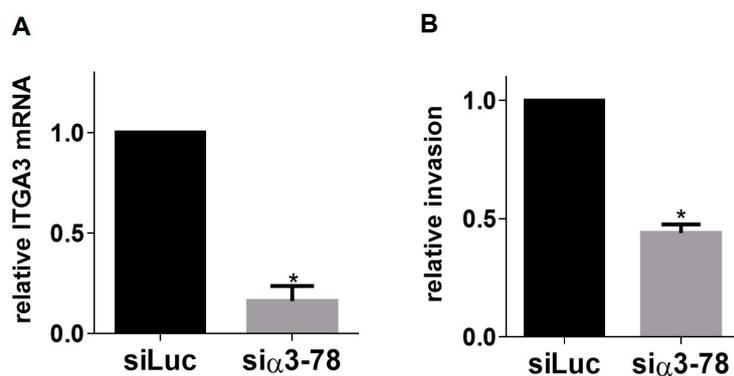


Figure S3. Invasion of MDA-MB-231 cells is reduced upon siRNA-mediated knockdown of ITGA3. **A.** qRT-PCR was performed to compare ITGA3 mRNA in MDA-MB-231 cells transfected with control siRNA (siLuc) or $\alpha 3$ -targeting siRNA (si $\alpha 3$ -78). **B.** Invasive potential of MDA-MB-231 cells transfected with siLuc or si $\alpha 3$ -78 cells was compared using Matrigel invasion assays. Graph shows relative cell invasion. Data are average \pm SEM, $n=3$; $*p \leq 0.05$, unpaired t-test.