

Supplemental Figure S5: Raw data from the impedance attachment assays before control normalization. Examples of MCF-10A and PTEN^{-/-} cells in the absence and presence of 50 μ M Blebbistatin or 20 μ M ML-7. (Data normalized and presented in Fig. 3D)

Table T1: PTEN loss and PIK3CA mutations in breast cancer cell lines

	MCF10A*	ZR75-1	Bt-20	SkBr3	MDA468	Hs578t	BT549	SUM149	HCC1395	MDA436	HCC1937
PTEN	+	-	+	-	-	***	-	-	-	-	-
PIK3CA	WT	WT	P539R H1047R§	WT	WT	WT	WT	WT	WT	WT	WT
P-AKT	Low	High	High	High	High	High	High	High	High	High	High

*MCF10A cells are a diploid, non-tumorigenic human breast epithelial cells

**Although PTEN is expressed, these cells have elevated P-Akt levels

§H1047R is a PI3K activating mutation

Unless otherwise cited genomic sequences for PIK3CA are catalogued in the Sanger Institute Cosmic database (catalogue of somatic mutations in cancer) <http://www.sanger.ac.uk/genetics/CGP/cosmic/>