

Supplementary Figure 1. Loss of BPix promotes Yap activity.

(A) β Pix regulates Yap localization in NMuMG cells at high cell density. NMuMG cells were transfected with control siRNA or siRNA targeting β Pix and were plated at high cell density. After 48 h, Yap localization was visualized by immunofluorescence confocal microscopy. (B) Deconvolution of β Pix siRNAs. NMuMG cells were transfected with single si β Pix oligonucleotides that comprised the pool. The expression of Yap/Taz target genes and β Pix knockdown efficiency was determined by qPCR. Data from 2 independent experiments is plotted as average fold over no siRNA ± the range. (C,D) β Pix regulates Yap/Taz activity in response to actin disruption. EpH4 cells transfected with siCTL or si β Pix were treated with LatA. (C) Relative expression of Ctgf and the knockdown efficiency of β Pix was determined by qPCR. (D) Yap localization was visualized by immunofluorescence confocal microscopy.



Supplementary Figure 2. Mapping the Interaction of YAP and α PIX and determining LATS localization. (A) A schematic depicting the different α PIX and β PIX cDNA constructs used for mapping interactions is shown. Positive or negative interactions with YAP are indicated on the right. (B) Interaction mapping between HA-YAP and Flag- α PIX WT and mutant constructs. Cells were co-transfected with wild-type or mutant constructs of Flag- α PIX along with HA-YAP and cell lysates were subject to anti-Flag IP. The presence of YAP was determined by anti-HA immunoblotting. (C) Quantitation of the interaction mapping of YAP to α PIX from replicate experiments is plotted. (D) Flag-LATS1 is cytoplasmically-localized in NMuMg cells. Localization of Flag-LATS1 in transiently-transfected NMuMG cells was determined byconfocal microscopy.



Supplementary Figure 3. YAP and TAZ promote cell proliferation and migration in MDA-MB-231 cells. Cells were transfected with control siRNA or siRNA targeting YAP, or TAZ (WWTR1) and the effect on cell proliferation or migration was determined by a SRB or wound healing assay, respectively. Knockdown efficiency was confirmed by qPCR. A representative experiment is shown.





Supplementary Figure 4. Analysis of MDA-MB-231 stable cell clones. Expression of Flag-βPIX in MDA-MB-231 cells.

(A) MDA-MB-231 cell clones stably transfected with empty vector (CTL-A, CTL-B) or Flag-βPIX (βPIX-A, βPIX-B) were fixed and βPIX expression and localization was confirmed by immunofluroresence confocal microscopy (B) Analysis of LATS1 and LATS2 knockdown efficiency associated with Figure 7. MDA-MB-231 parentals, control (CTL) or βPIX expressing stable clones were transfected with control siRNA or siRNAs target_ing both LATS1 and LATS2. Knockdown efficiency of LATS1 and LATS2 was confirmed by qPCR.