

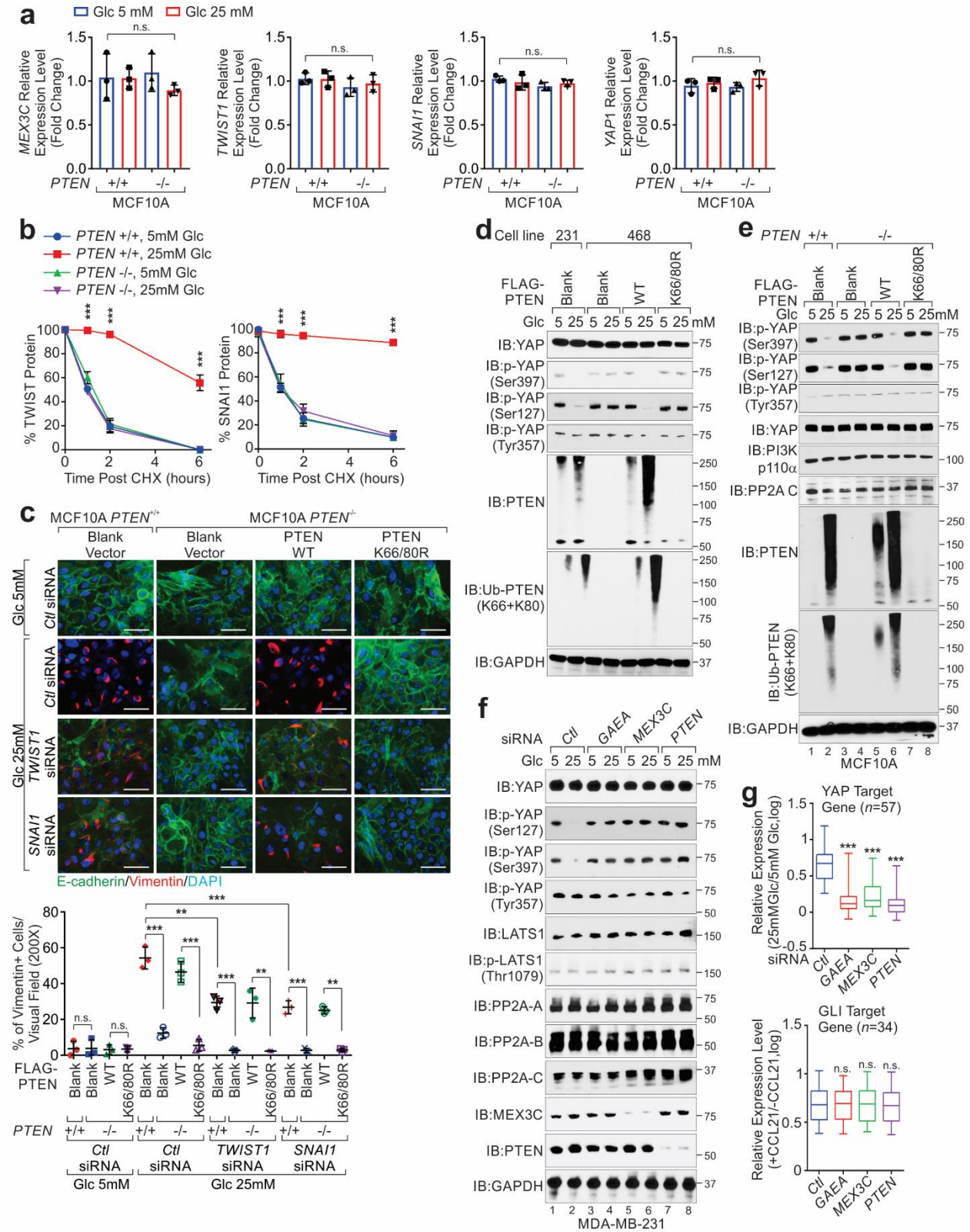


Figure S11: PTEN^{K27-polyUb} stabilize TWIST1, SNAI1, and YAP1.

(a) RT-QPCR detection of *MEX3C*, *TWIST1*, *SNAI1* or *YAP1* mRNA level in MCF10A *PTEN*^{+/+} or MCF10A *PTEN*^{-/-} cells followed by glucose starvation and stimulation (5mM or 25mM, 4 hr). Error bars, SD, *n*=3 independent experiments, one-way ANOVA. (b) Stability of *TWIST1* and *SNAI1* proteins after CHX treatment (100 µg/ml) for indicated time in glucose-starved MCF10A *PTEN*^{+/+} or MCF10A *PTEN*^{-/-} cells followed by glucose re-stimulation (5mM or 25mM). Protein bands from the immunoblots (Fig. 6c) were quantitated with Image J software, using the GAPDH signal for normalization. Signal intensities were then normalized to the 0 hr time point. Error bars, SD, *n*=3 independent experiments, one-way ANOVA. (c) Immunofluorescence detection using indicated antibodies in MCF10A *PTEN*^{+/+} and MCF10A *PTEN*^{-/-} cells transfected with indicated expression vectors and siRNAs subjected to glucose starvation and followed by glucose re-stimulation (5mM or 25mM). Top panel: representative images, scale bar: 50 µm; bottom panel: statistical analysis. Error bars, SD, *n*=3 independent experiments, Student's t-test. (d, e) IB detection of indicated proteins in MDA-MB-231 or MDA-MB-468 cells (d) or MCF10A *PTEN*^{+/+} and MCF10A *PTEN*^{-/-} cells (e) transfected with indicated vectors, followed by glucose starvation and stimulation (5mM or 25mM, 1 hr). (f) IB detection using indicated antibodies in MDA-MB-231 cells harboring indicated siRNAs followed by glucose starvation and stimulation (5mM or 25mM, 1 hr). (g) Expression level fold change of YAP target genes (*n*=57) (left panel) or *GLI2* target genes (*n*=34) (right panel) in MDA-MB-231 cells transfected with indicated siRNAs followed by glucose starvation and stimulation (5mM or 25 mM, 4 hrs) (top panel) or CCL21 stimulation (100 nM, 4 hrs) (bottom panel), determined by RT-qPCR. Median±quantile, *n*=3 independent experiments, Student's t-test. (n.s. *p*>0.05, **p*<0.05, ***p*<0.01, and ****p*<0.001).