

Supplementary figures

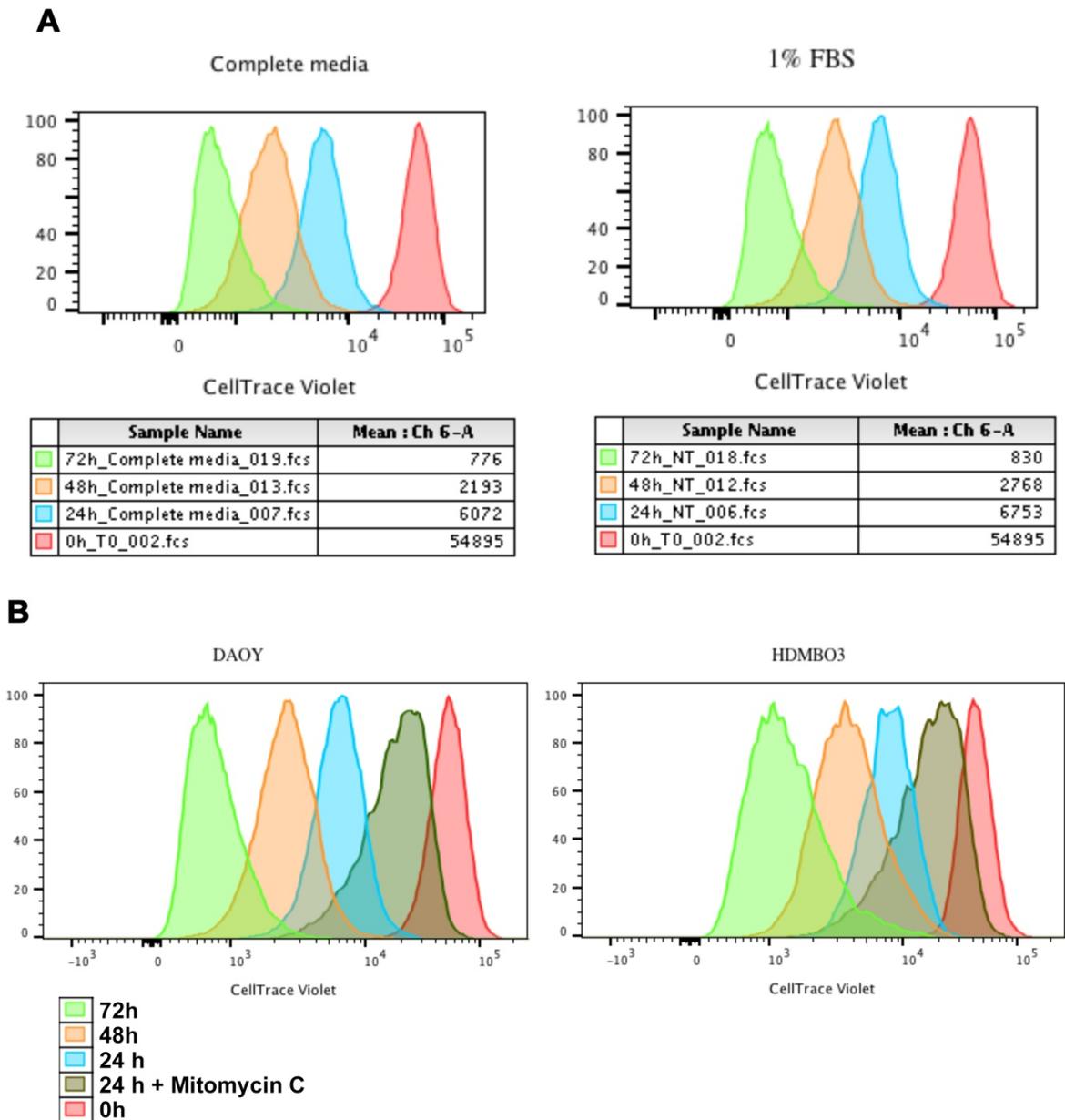


Figure S1: Validation of CellTrace violet quantification of proliferation A) Flow cytometry analysis of CellTrace violet stained cells in complete (10% FBS) or low FBS medium. B) Time course of dye dilution and confirmation of dye retention in DAOY and HD-MBO3 cells after mitotic blockade by mitomycin C treatment.

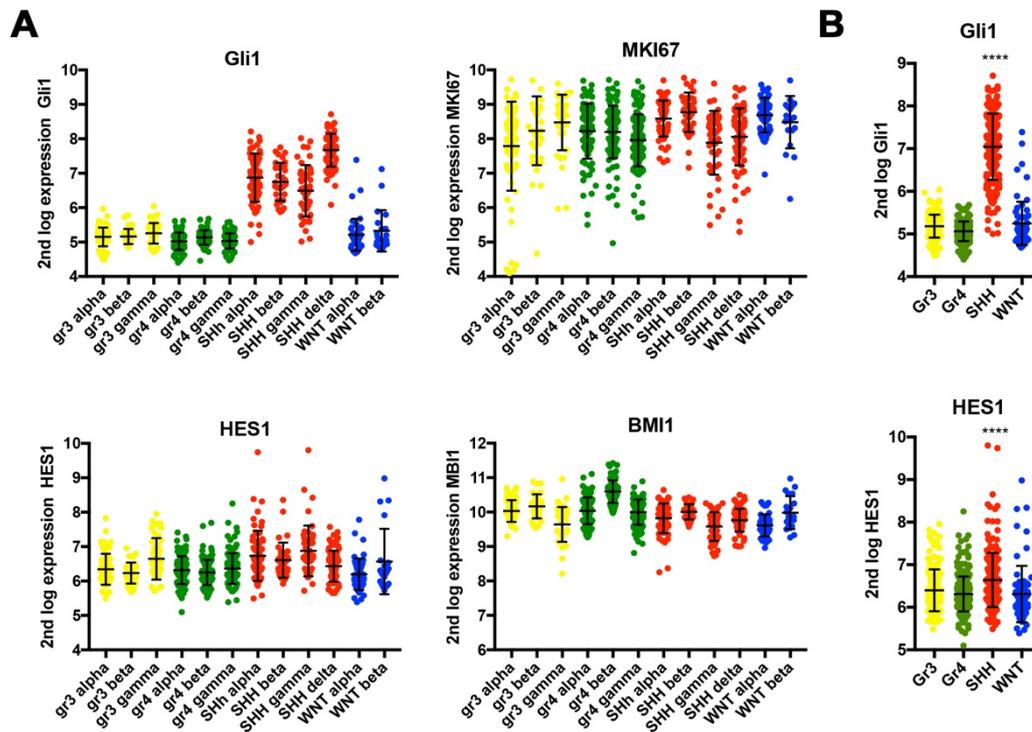


Figure S2: Gene expression analysis in primary tumors R2 database analysis of (A) subtype- or (B) subgroup-specific *Gli1*, *MKI67*, *HES1* and *BMI* expression in the Cavalli 763 dataset. Gene expression levels are expressed 2nd log.

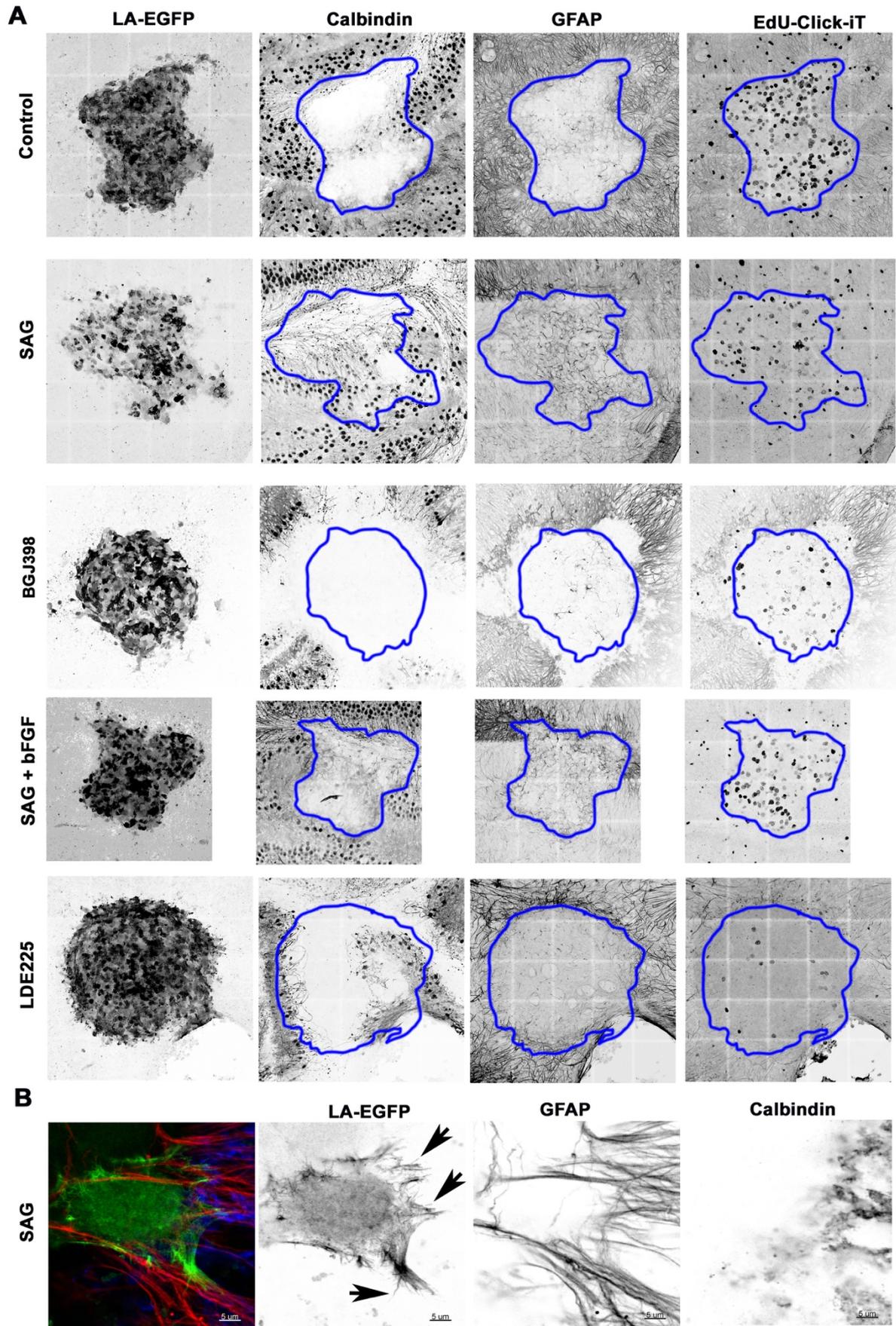


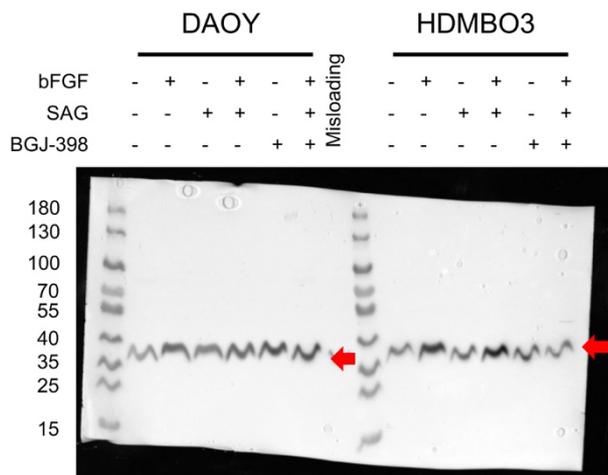
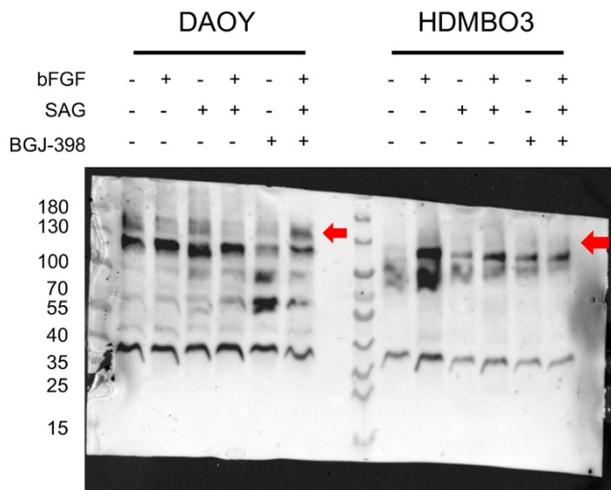
Figure S3: EdU staining in tumor cells implanted in OCSCs A) Confocal microscopy analysis of

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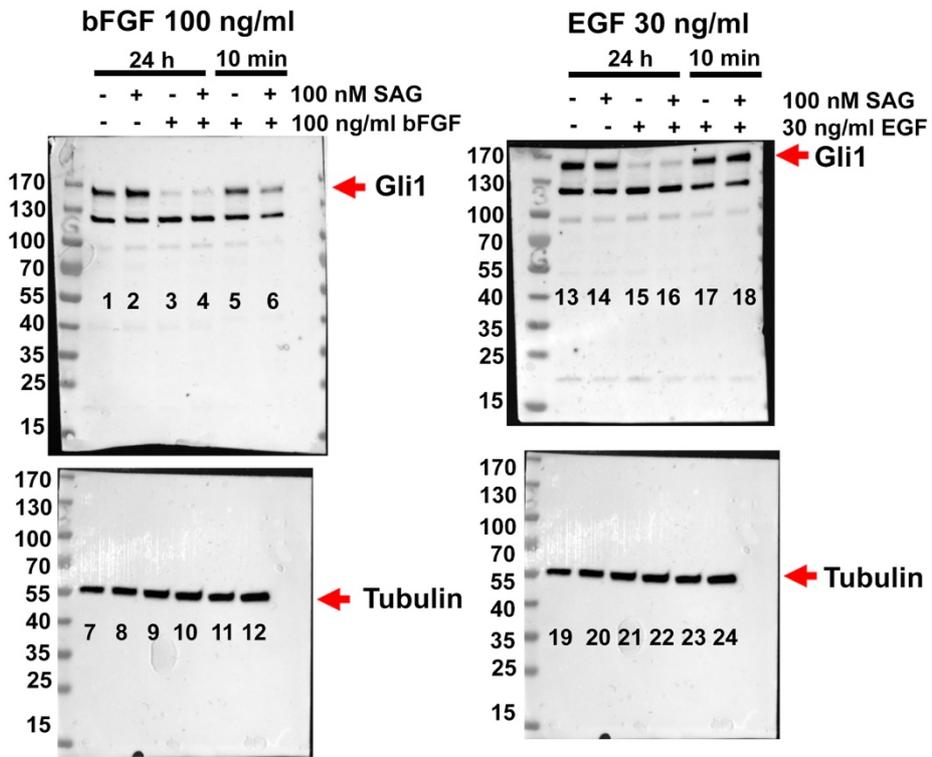
spheroids in OCSCs five days after implantation with the treatments indicated. Blue lines indicate circumference of spheroids overlaid with the different staining in greyscale. **B)** High magnification confocal microscopy image of single invading cells after SAG treatment. Note invasive protrusion in LA-EGFP channel highlight with arrows.

Blots:

blots Fig. 1C



blots Fig. 1E



Gli1: 140 kDa im immunoblot

Tubulin: 55 kDa

blot Figure 4A

Fig. 4A, bFGF

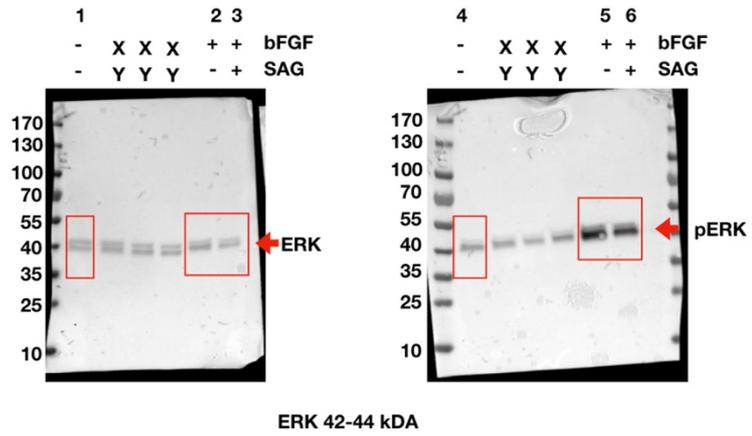


Fig. 4A, HGF

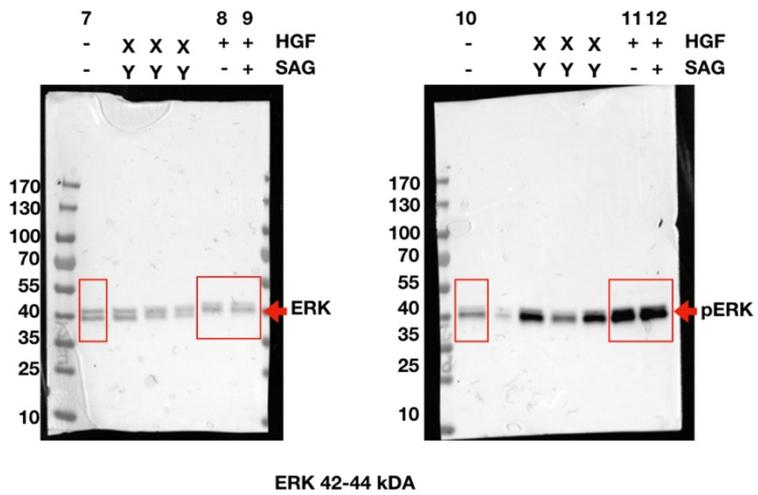


Fig. 4A, EGF

