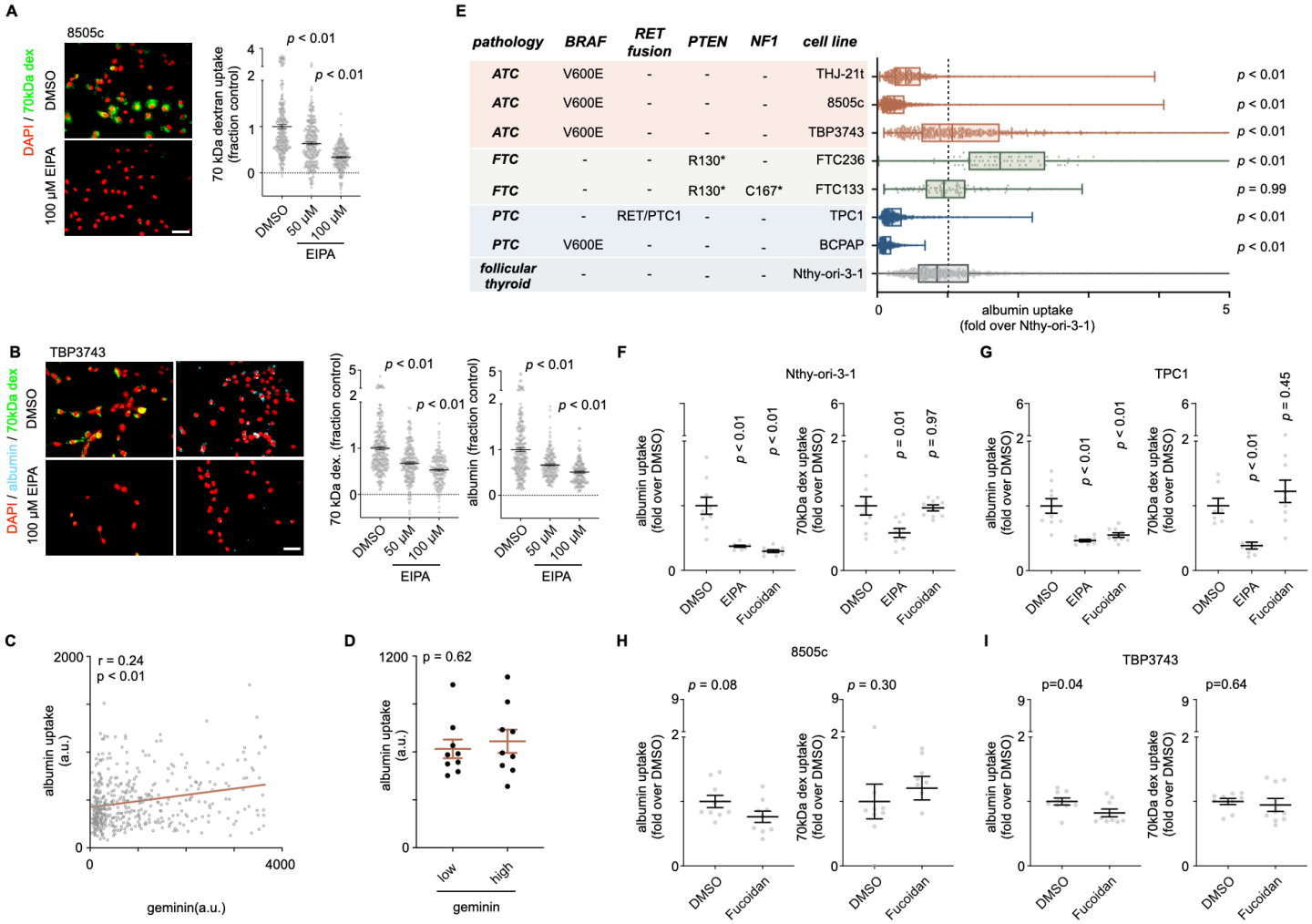

Supplementary Figure S1. Albumin uptake is dependent on macropinocytosis in ATC. A, Representative images (scale bar = 50 µm) and quantification (means ± s.e., one-way ANOVA/Dunnett compared to DMSO) of 4h 70kDa dextran uptake for 8505c cells pretreated with EIPA for 5 h (n≥220 cells across all cond.). **B**, Representative images (scale bar = 50µm) and quantification (means ± s.e., one-way ANOVA/Dunnett compared to DMSO) of 4h 70kDa dextran and HSA uptake by TBP3743 cells pretreated with EIPA for 5 h (n≥159 cells across all conditions). **C**, Correlation between albumin uptake and geminin was assessed on a per-cell basis using TBP3743 expressing geminin-mCherry, measured after 4h treatment with fluorescent albumin (n = 436 cells, Pearson's correlation r, two-tailed t-test). **D**, Albumin uptake was determined after binning cells as either geminin-low (geminin signal a.u. <500) or geminin-high (geminin signal a.u. ≥ 500), averaging single-cell data within a given replicate shown as individual data points, and then comparing across replicates (n = 9 images, means ± s.e., two-tailed t-test.). **E**, Quantification of the albumin uptake after 4 h incubation in live papillary thyroid cancer (PTC) , follicular thyroid cancer (FTC), and anaplastic thyroid cancer (ATC) cell lines; data are shown as medians ± interquartile range, and p-values are from a one-way ANOVA/ Dunnett test compared to Nthy-ori-3-1 follicular thyroid cells; n ≥ 90 cells. **F-G**, Microscopy quantification of 4 h albumin and dextran uptake in Nthy-ori-3-1 (**F**) and TPC1 (**G**) after pre-treatment with 100µM EIPA or 200ng/ml fucoidan for 4h, n = 9 per cond., using one-way ANOVA/Dunnett test compared to DMSO control. **H-I,** Microscopy quantification of 4h albumin and dextran uptake in 8505c (**H**) and TBP3743 (**I**) after pre-treatment with 200 ng/ml fucoidan for 4h, n = 9 per cond., using two-tailed t-test.