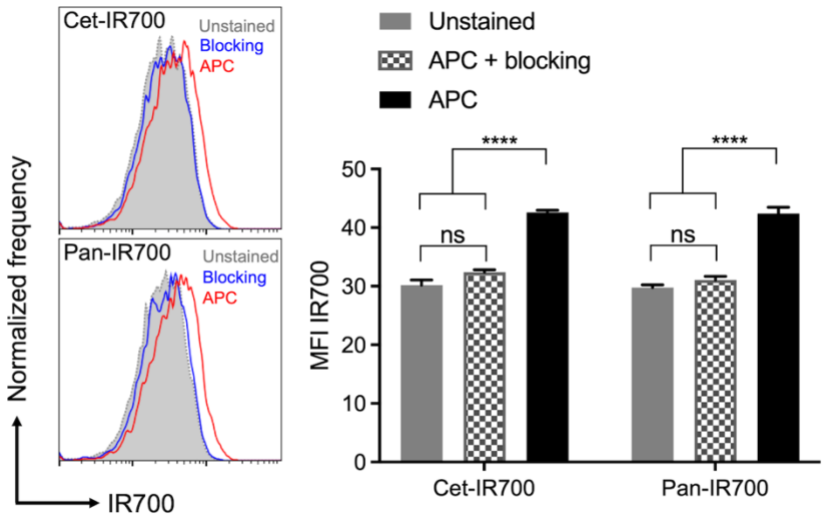


**Fig. S1 APC binding to the mEERL-hEGFR cells**

To confirm the binding of IR700 conjugated antibodies to mEERL-hEGFR cells, the cells ($2 \times 10^5$) were seeded into each corner well of 12-well plate. After one day, the cells were incubated with 10 μg/mL of each APC for 1 h at 37°C. After washing with PBS, the fluorescence of the cells was analyzed with a flow cytometer (FACSCalibur, BD Biosciences, San Jose, CA, USA) and FlowJo software (BD Biosciences). To confirm the specific binding of the APCs, 10-fold excess of each unconjugated antibody was added to some samples 1 h prior to the administration of the APC. Histograms are representative results (left). Bar graphs shows Mean fluorescence intensity (MFI) of each sample ($n = 4$; two-way ANOVA followed by Tukey's test; ****, $p < 0.0001$; ns, not significant) (right)

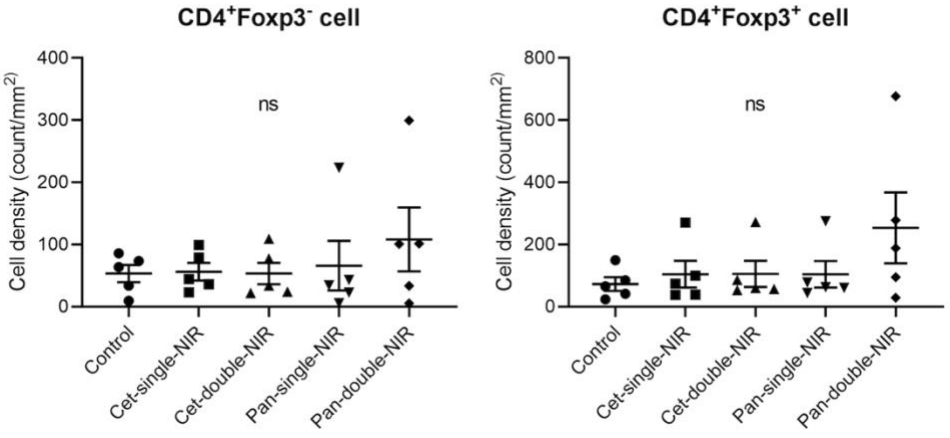


**Fig. S2 CD4$^+$ T cell accumulation into tumor**

Tumors were extracted 7 days after the initial light exposure. The specimens were assessed by multiplex IHC staining (Fig. 5). Intratumoral CD4$^+$Foxp3$^-$ and CD4$^+$Foxp3$^+$ cell density was compared and showed no significant difference between any two groups ($n$ = 5; one-way ANOVA followed by Tukey's test).