



**Supplemental Data 3. Photothermal ablation of BCPAP tumors with using 2W, 808nm wavelength continuous laser for 2 minutes.** Although those that were injected with IgG; and αTSHR;Cy5.5-MWCNT saw decreased tumor size compared to the no treatment group ( $p = 0.007$  for both), the tumor ablation was insufficient and the growth was continued.