



**Supplementary Figure S4. PSMA expression in tumors with different fractions of PSMA-positive cells (study 2).** PSMA expression of tumors resected two days after <sup>177</sup>Lu-PSMA RLT was determined by IHC. **(A)** PSMA expression by IHC in the different experimental groups. Asterisks indicate statistically significant differences (100% vs. 75%,  $p=0.0616$ ; 75% vs. 50%,  $p=0.0409$ ; 50% vs. 25%,  $p=0.6747$ ; 25% vs. 0%,  $p<0.001$ ). **(B)** <sup>177</sup>Lu-PSMA uptake correlates with PSMA expression (IHC). Polynomic regression analysis (dotted line) resulted in an  $R^2=0.9992$ . **(E)** Representative IHC images. Brown staining indicated PSMA positivity. Mean $\pm$ SD are shown (A, B;  $n=3$  tumors/group). The numbers 0, 25, 50, 75, 100%, indicate the percentage of PSMA-positive cells injected (vs. PSMA-negative cells).