



Supporting Information

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CD146-Targeted Multimodal Image-Guided Photoimmunotherapy of Melanoma

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Supporting Information

CD146-targeted, Multimodal Image-guided Photoimmunotherapy of Melanoma

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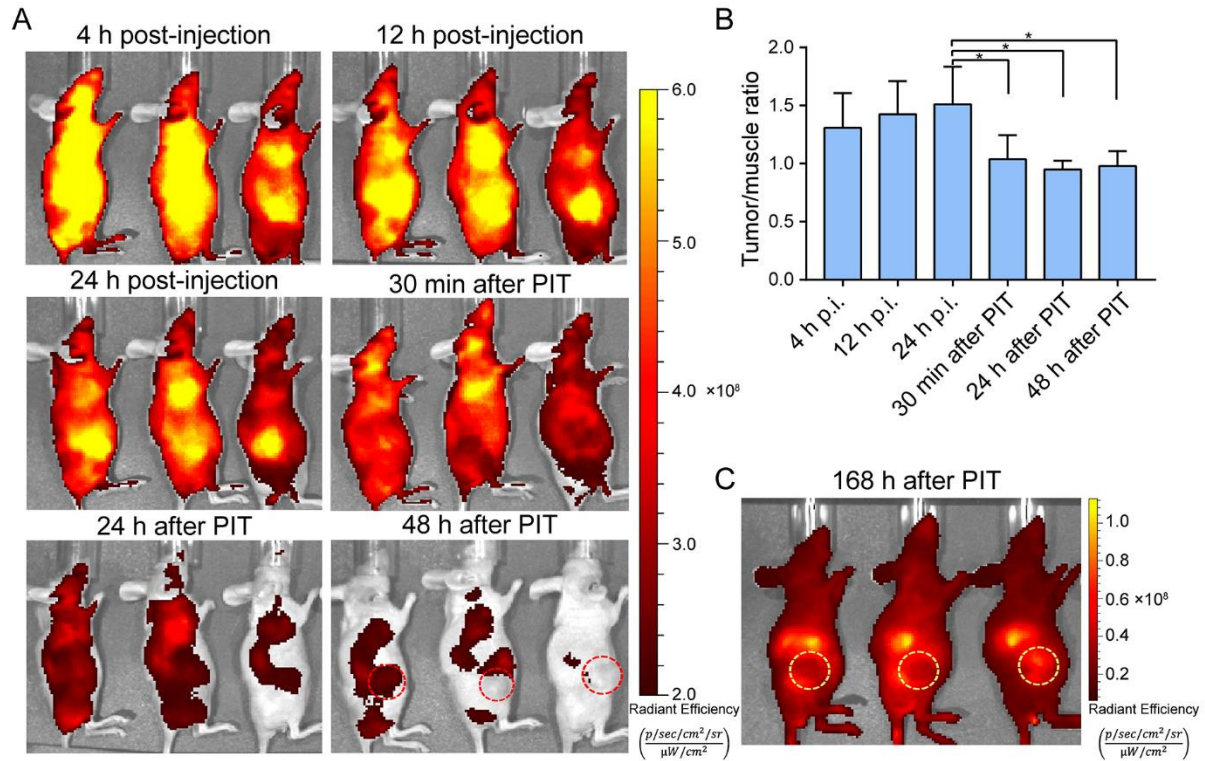


Figure S1. Serial fluorescence images of A375 melanomas with heavy tumor burden before and after NIR IR700-YY146 PIT. (A) Fluorescence images were obtained at different time-points before and after NIR irradiation. (B) The mean fluorescence ratios of tumor-to-muscle were quantitatively calculated before and after PIT (n=4 for the group, *p < 0.05). (C) Fluorescent images were acquired one week after NIR laser exposure. Tumors were indicated by red or yellow dashed circles.

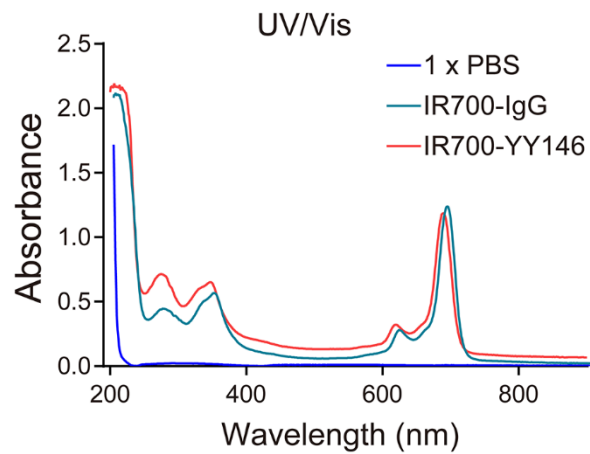


Figure S2. UV-Vis measurement of absorption profiles of the IR700-modified antibody conjugates, that is, IR700-IgG and IR700-YY146. PBS was used as a control sample.

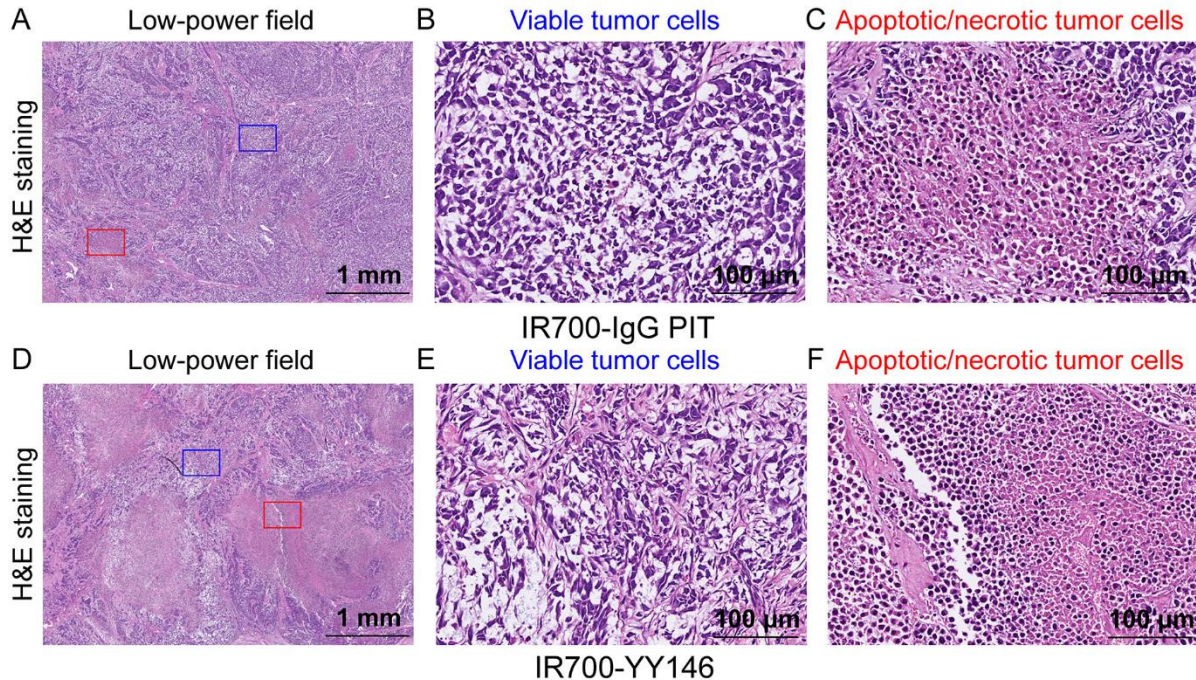


Figure S3. Hematoxylin and eosin (H&E) staining of the A375 tumors resected from mice receiving either IR700-IgG PIT or IR700-YY146 treatment. (A-C) The majority of the tumor cells were viable in the tumor specimen from the mice received IR700-IgG PIT (blue rectangle, B), while a few scattered clusters of apoptotic/necrotic tumor cells (red rectangle, C) were observed. (D-F) In comparison, H&E staining of the tumor specimen obtained from the mice receiving IR700-YY146 treatment showed large areas of cellular apoptosis or necrosis (F), which was indicative of the therapeutic effect of YY146.