

**Nanobody-loaded nanobubbles targeting G250
antigen with ultrasound/photoacoustic/fluorescence
multimodal imaging capabilities for specifically enhanced
imaging of RCC**

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Supplementary Information

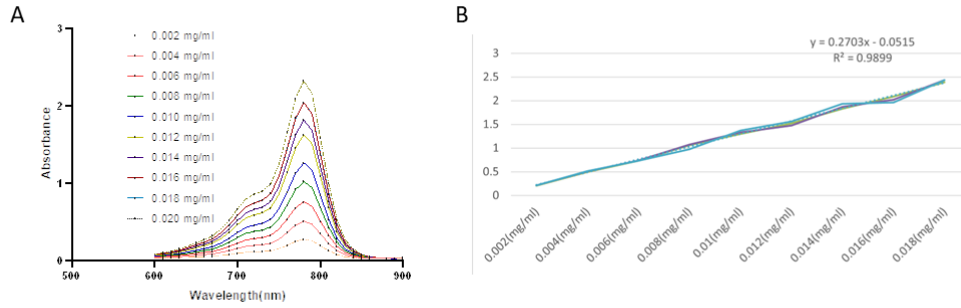


Figure S1. (A) Absorption spectra of AGN/ICG-NBs at different concentrations. (B) The fitting curve of AGN/ICG-NB concentration and absorption value at the optimum wavelength.

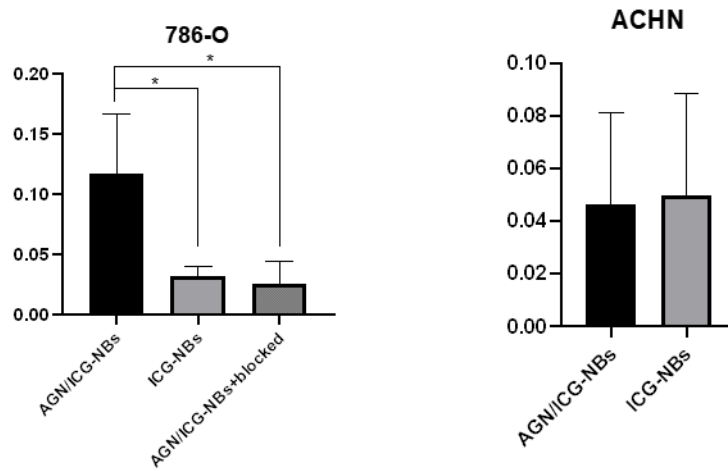


Figure S2. Quantification of the fluorescence signal intensity of AGN/ICG-NBs or ICG-NBs surrounding 2 types of tumor cells (* indicates $P < 0.05$)

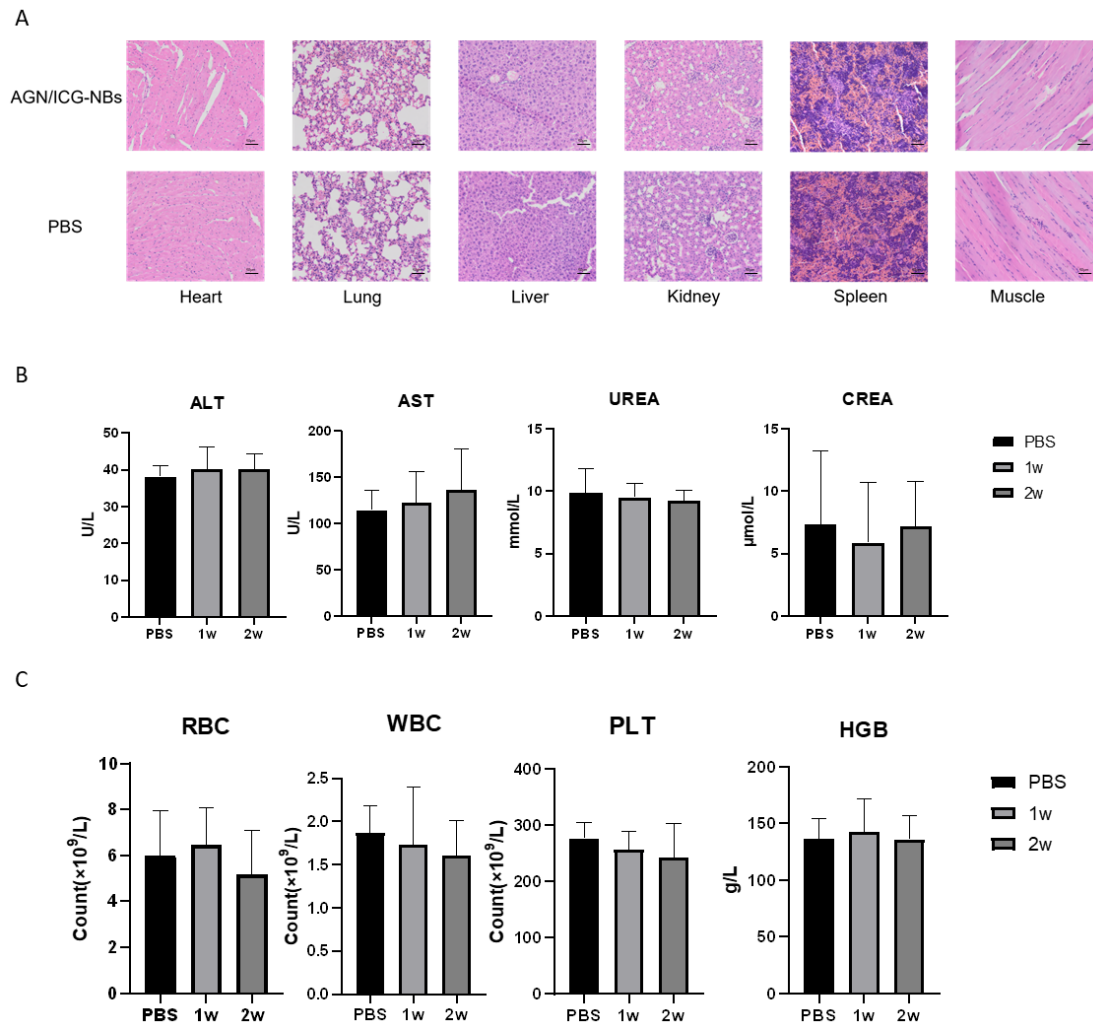


Figure S3. Detection of biosecurity of AGN/ICG-NBs. (A) H&E staining results of major organs of mice after injection of AGN/ICG-NBs and PBS for 2 weeks ($n=3$). No significant injury was found. (B) The standard biochemical index of the mice after injection of PBS and AGN/ICG-NBs for 1 week and 2 weeks. ALT and AST levels reflect liver function.; UREA and CREA levels reflect renal function. No significant difference was found between the 3 groups ($n=3$). (C) Major index results of blood routine of the mice after injection of PBS and AGN/ICG-NBs for 1 week and 2 weeks. No significant difference was found between the 3 groups ($n=3$).