

Supporting Information

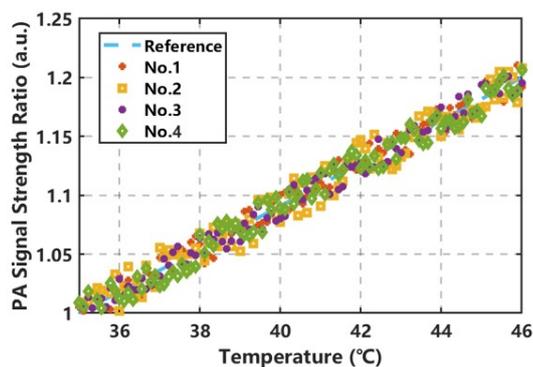


Fig S1. Calibration chart of photoacoustic signal intensity ratio of agar-based phantom with temperature variation. The root mean square error is 0.12, indicating good consistency.

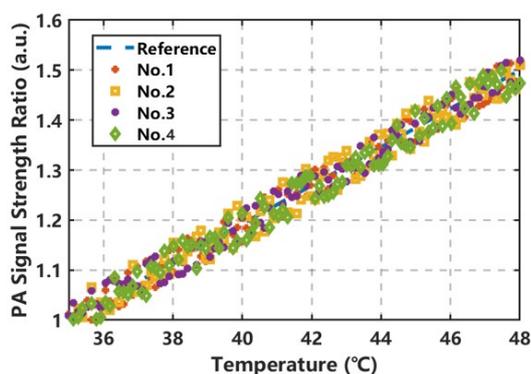


Fig S2. In vivo photoacoustic signal intensity ratio calibration curve based on temperature changes in mouse tumors. The root mean square error is 0.19, indicating a decrease in accuracy compared to the phantom, which is due to the complex biological composition in living mice.

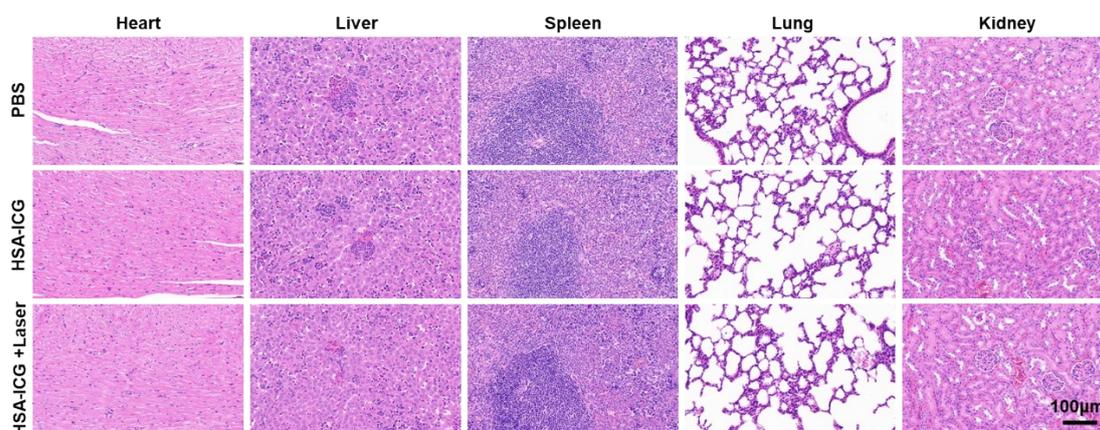


Fig S3. Histological analysis of major organs (heart, liver, spleen, lung, and kidney) from mice treated with PBS or HSA-ICG.