Transient Mild Hyperthermia Induces E-Selectin Mediated Localization of Mesoporous Silicon Vectors in Solid Tumors

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**Methods**

TUNEL assay- Tumor characterization

DNA fragmentation an index of apoptosis was determined by TUNEL assay (Roche Diagnostics, Indianapolis, IN) according to the manufacturer’s specifications using paraffin sections of the breast tumors.

Tumor vascularity- Tumor characterization

Difference in tumor vascularity was confirmed by using ImageJ v1.34 (NIH, Bethesda, MD) to quantify level of vascularity on histological images. Images were converted to 8-bit, lower threshold color was adjusted to include regions with no fluorescence as a background, the upper threshold color was adjusted to include vascular region containing dye green dextran, and used to estimate the degree of tumor vascularity.