

Figure S1. Verification of purified mitochondria. A) Western blot analysis of cell lysate, cytosol, crude mitochondria (Crude Mito) and affinity-purified mitochondria (Pure Mito) were analyzed by SDS-PAGE. Blots were simultaneously probed with a cocktail of rabbit monoclonal antibodies: anti-LAMP2 (lysosome marker), anti-GRP78 (endosome marker), anti-ATP5a (mitochondria marker), anti-GAPDH (cytosol marker), and anti-histone H3 (nuclear marker). B) Scanning electron microscopy analysis of purified mitochondria. White arrows point at examples of mitochondria.



Figure S2. Localization of intravenously injected mitochondria. 300 mg of DsRedlabeled mitochondria were injected into healthy mice and the blood, spleen and heart were harvested at 2 hr or 18 hr. Frozen tissue sections (5 mM) were stained with DAPI nuclear stain and examined by confocal microscopy. A) Images of heart and spleen tissue. White arrow indicates a uptake of mitochondria by a potential endothelial cell. B) FACS analysis for DsRed uptake by peripheral blood monocytes (CD11b⁺, Ly6G^{neg}), splenic monocytes (CD11b⁺, CD11c^{neg}, Ly6G^{neg}), splenic dendritic cells (CD11c⁺, CD11b⁺, Ly6G^{neg}), and splenic endothelial cells (CD31⁺, CD45^{neg}).