

Description of Additional Supplementary Files

Supplementary Movie 1: Ex vivo two photon microscopic imaging of FITC-PECAM antibody perfused LLC tumors after treated with DOX alone.

Supplementary Movie 2: Ex vivo two photon microscopic imaging of FITC-PECAM antibody perfused LLC tumors after treated with 3-BP and DOX combination.

Supplementary Movie 3: Ex vivo two photon microscopic imaging of doxorubicin treated tumors arising from the mice that were co-injected with A549 and scramble transfected TPC.

Supplementary Movie 4: Ex vivo two photon microscopic imaging of doxorubicin treated tumors arising from the mice that were co-injected with A549 and HK2-depleted TPC.

Supplementary Movie 5: Ex vivo two photon microscopic imaging of doxorubicin treated tumors arising from the mice that were co-injected with A549 and ROCK2 overexpressing HK2- depleted TPC.