



**Figure S1.** Cancer progression dependence on WAT content. **A**, body mass changes upon obesity induction and diet normalization. C57BL/6 mice (no marrow transplant) or GFP mice transplanted with RFP marrow were raised on high-fat (HFD) or low-fat (LFD) diet for 6 months. Transplanted mice were allowed to recover on HFD and LFD for an extra month. Diet normalization on regular chow was performed for each group for 1 month prior to tumor grafting. **B**, changes in the body composition of C57BL/6 mice grafted with E0771 tumors (no bone marrow transplant) measured by Echo MRI. **C**, tumor growth kinetics and accompanying body mass changes in RAG-1 (grafted for with MDA-231 tumors) or C57BL/6 (grafted with ID8 tumors) mice that were obese, lean, or obesity-resistant (HFD non-obese). Note that RAG-1 are less prone to DIO than C57BL/6 mice. n=number of animals/group. \*  $P < 0.05$  compared to lean mice; Error bar: SEM.