Supplemental Figure 1. Selective reconstitution of the mast cell compartment in W/Wv mice. Reconstitution of mast cell populations in W/Wv mice that received i.v. transfer of BMMC were confirmed by flow cytometric analysis of the peritoneal compartment. (A) Peritoneal exudate cells were obtained from WT, W/Wv, and W/Wv mice reconstituted with B6 or IL-4−/− BMMC by lavage with 3 ml of PBS. Cells were stained with antibodies specific for murine c-kit, FcεRI and CD34 and analyzed by flow cytometry. Mast cells were identified as granular (high, log scale side scatter) and c-kit high. (B, C) Mast cells were further characterized as FcεRI and CD34 positive. Isotype controls are indicated by black bars. Selective reconstitution of the mast cell compartment was confirmed by hematocrit determination of all four groups. W/Wv mice are anemic (53.9±2.0%) as compared to age-matched littermate WT controls (68.2±2.1%). The anemic status of W/Wv mice that received either WT or IL-4−/− BMMC was retained (54.9±4.2% and 58.8±1.1%, respectively), demonstrating that no other hematological defects were restored (p<0.05 for all groups as compared to littermate WT controls using one-way ANOVA and Dunnett’s post test).