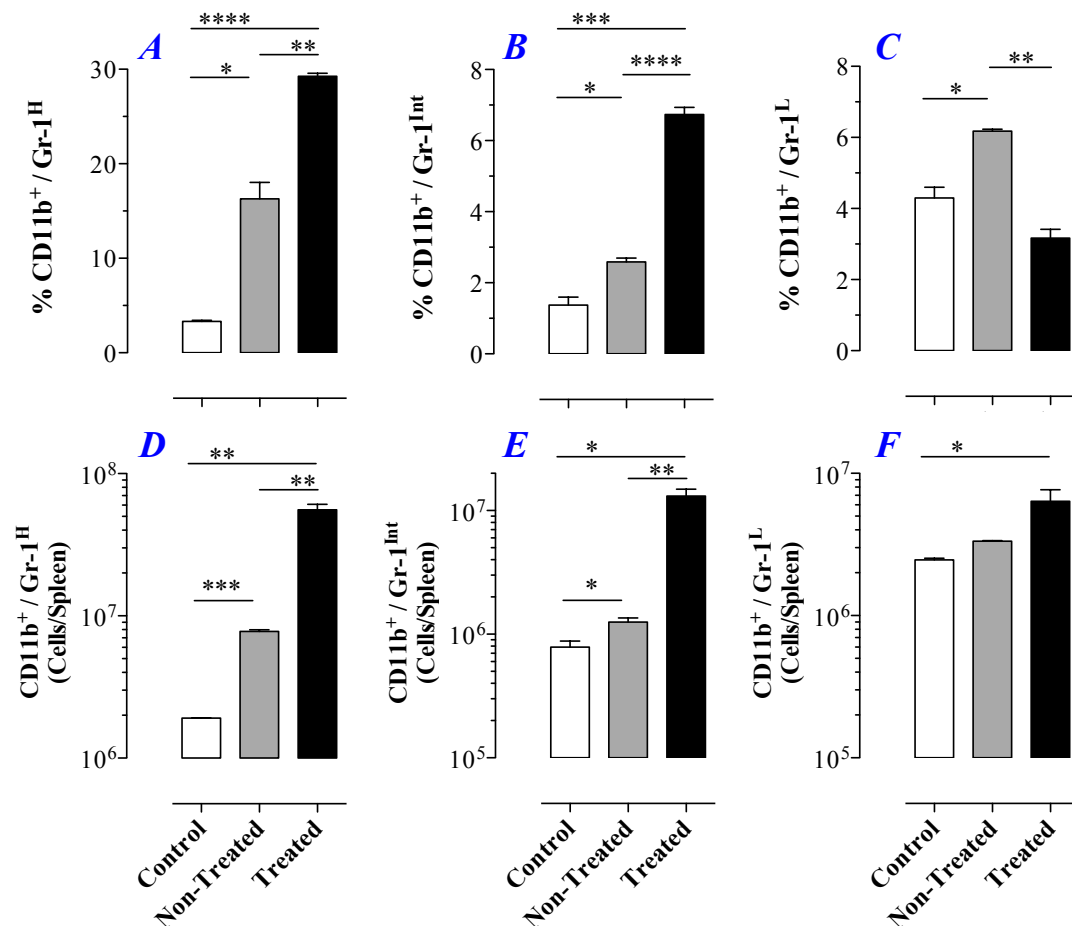# Salmonella-Mediated Tumor Regression Involves Targeting of Tumor Myeloid Suppressor Cells causing a Shift to M1-like Phenotype and Reduction in Suppressive Capacity
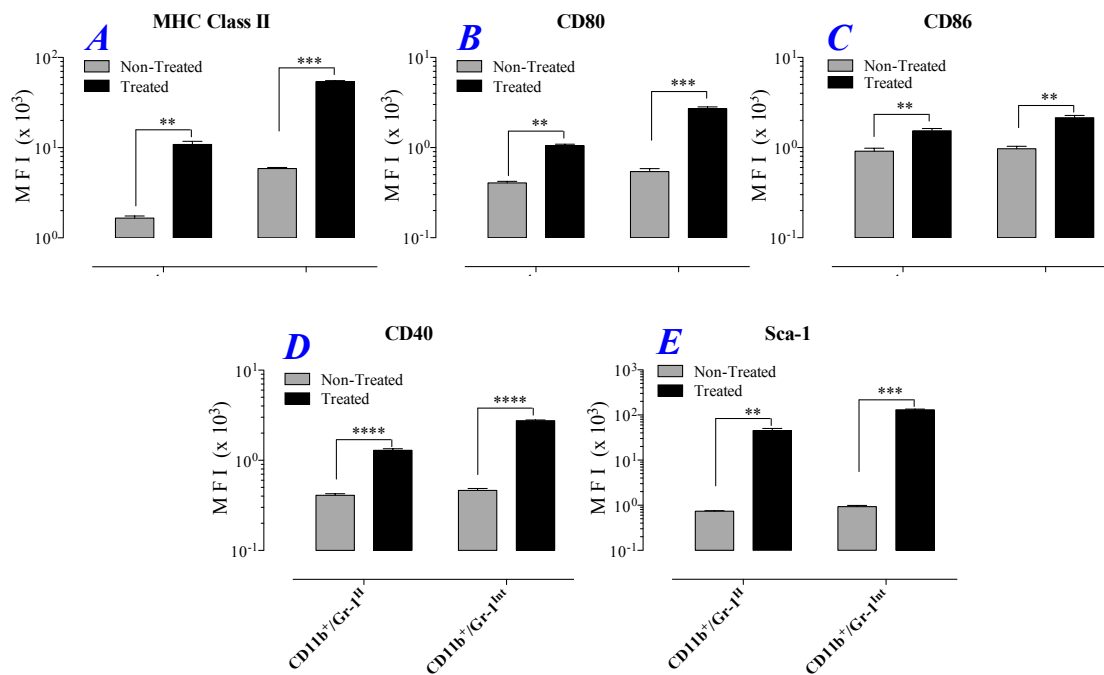
Suneesh Kaimala, Yassir A. Mohamed, Nancy Nader, Jincy Issac, Eyad Elkord, Salem Chouaib, Maria J. Fernandez-Cabezudo, and Basel K. al-Ramadi
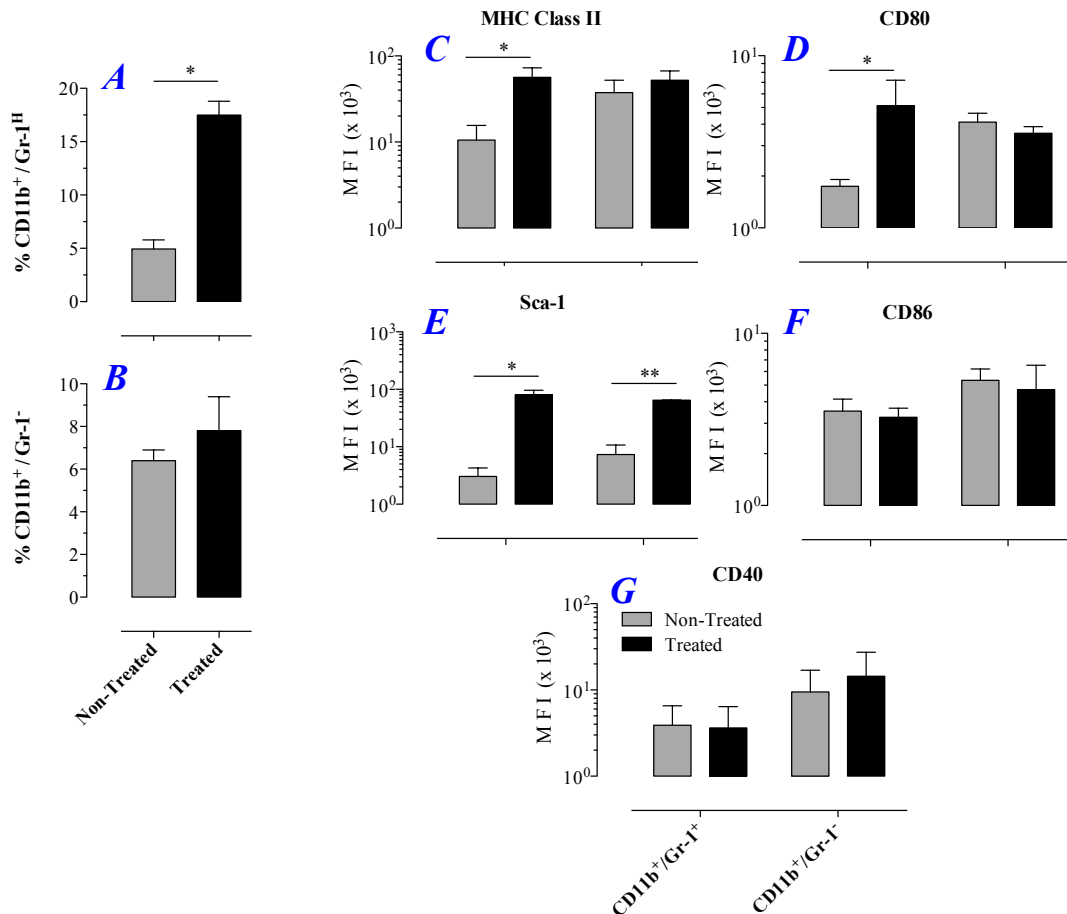
Supplementary Figure 1

SFigure 1. Selective expansion of Gr-1$^+$ splenic myeloid cells following Salmonella treatment. The percentage (panels **A-C**) and absolute cell counts (panels **D-F**) of CD11b$^+$Gr-1^{high} (panels **A, D**), CD11b$^+$Gr-1^{Inter} (panels **B, E**), and CD11b$^+$Gr-1$^{-/low}$ (panels **C, F**) were determined by FACS staining with specific mAbs in non-treated or Salmonella-treated mice at day 8 post treatment. Each data point represents the mean ± SEM of 3 mice per group. Asterisks denote statistically significant differences between the indicated groups (****, $p<0.0001$; ***, $p<0.001$; **, $p<0.01$; *, $p<0.05$). The results are representative of 3 independent experiments.

SFigure 2. Upregulation of myeloid activation markers on splenic cells after Salmonella-treatment. This analysis is based on the FACS staining profiles shown in Figure 3. The data are depicted as the mean fluorescent intensity (MFI) of MHC class II (panel *A*), CD80 (panel *B*), CD86 (panel *C*), CD40 (panel *D*) and Sca-1 (panel *E*) proteins on CD11b$^+$Gr-1^{high} and CD11b$^+$Gr-1^{Inter} myeloid populations in non-treated or at day 8 post Salmonella treatment. Asterisks denote statistically significant differences between the non-treated and Salmonella-treated groups for each myeloid subpopulation (****, $p<0.0001$; ***, $p<0.001$; **, $p<0.01$). The results are representative of 3 independent experiments.

Supplementary Figure 3

SFigure 3. Expansion and activation profile of Gr-1$^+$ myeloid cells in tumor tissue following Salmonella treatment. The percentages of CD11b$^+$Gr-1$^+$ (panel **A**) and CD11b$^+$Gr-1$^-$ (panels **B**) among tumor infiltrating cells were determined by staining with specific mAbs in non-treated or Salmonella-treated mice at day 8 post treatment. Each data point represents the mean ± SEM of 3 mice per group. (**C-G**) Expression of myeloid activation markers MHC class II, CD80, CD86, Sca-1, and CD40, respectively, on intratumoral myeloid cells. The data are depicted as the mean fluorescent intensity of each of the indicated proteins on CD11b$^+$Gr-1$^+$ and CD11b$^+$Gr-1$^-$ myeloid populations in non-treated or Salmonella-treated mice. Asterisks denote statistically significant differences between the non-treated and Salmonella-treated groups for each myeloid subpopulation (**, $p<0.01$; *, $p<0.05$). The results are representative of 2 independent experiments.