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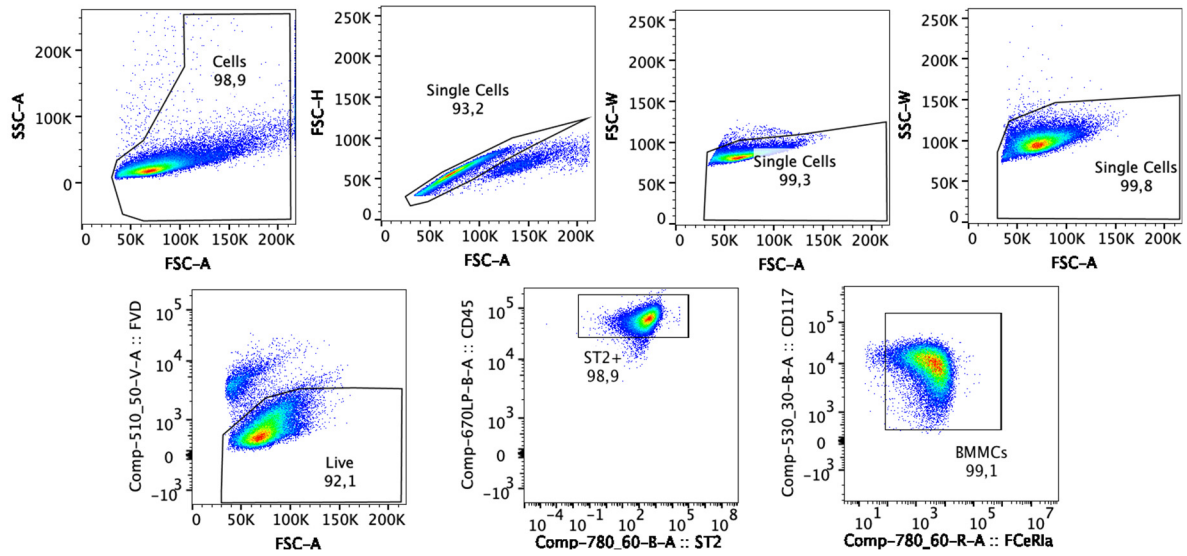

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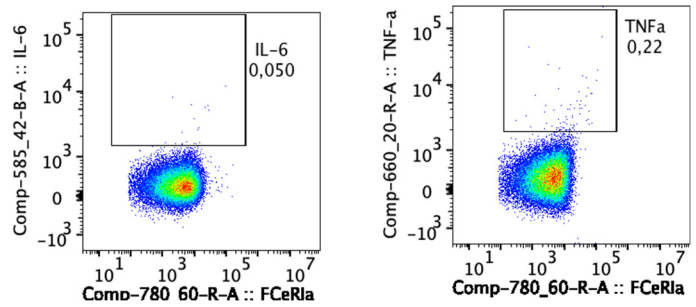
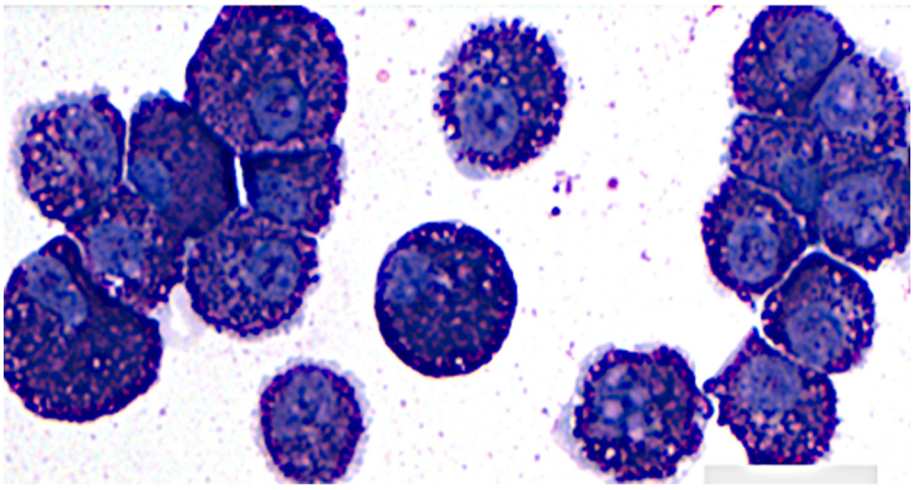


C



Supplementary Figure 1. Mouse bone marrow-derived cells cultured in the presence of pokeweed mitogen-stimulated spleen cell-conditioned medium (PWM-SCM) exhibited features of mast cells. Bone marrow-derived cells were obtained from three-week-old female C57BL/6 mice and cultured in 20% (V/V) PWM-SCM-containing media. After three weeks, the purity of bone marrow-derived mast cells was assessed using flow cytometry by staining them with surface-staining antibodies against FcεRIα, CD117 (c-kit), and IL-33 receptor ST2. (A) A side Scatter (SSC) / forward Scatter (FSC) gate was initially applied to exclude electronic noise and cell debris,

followed by singlet gates to exclude doublets, then a viability gate to exclude dead cells. Cells were defined as mast cells based on positive staining for the following markers: CD45, ST2, FcεRIα and CD117. (B) Intracellular cytokine staining and flow cytometry analysis revealed that the mast cells failed to express substantial quantities of the cytokines interleukin-6 and tumor necrosis factor-α in the absence inflammation. (C) Cell granularity was assessed using Wright-Giemsa staining of a cytospin prepared from 1×10^5 cells.