

Supplementary Figures:

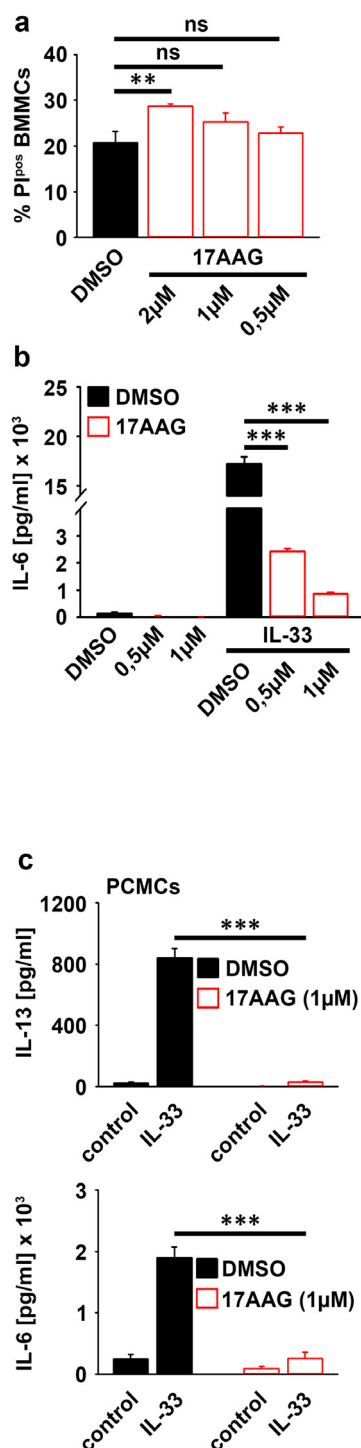


Figure S1. HSP90 mediates the IL-33-induced cytokine production. **(a)** BMMCs treated were with DMSO (vehicle) or 17AAG as indicated. Cells were analyzed by flow cytometry for PI^{pos} cells (the summary of $n=3$ biological replicates is shown, unpaired students t -test; ns: not significant, $** p \leq 0.01$). **(b)** BMMCs were treated with DMSO (vehicle) or 17AAG as indicated and were stimulated with IL-33 (50ng/ml) for 24h. Supernatants were collected and analyzed by ELISA (the summary of $n=3$ biological replicates is shown, unpaired students t -test; $*** p \leq 0.001$). **(c)** PCMCs were treated with DMSO (vehicle) or 17AAG (1μM) and were stimulated with IL-33 (50ng/ml) for 24h. Supernatants were collected and analyzed by ELISA (the summary of $n=3$ biological replicates is shown, unpaired students t -test; $*** p \leq 0.001$).

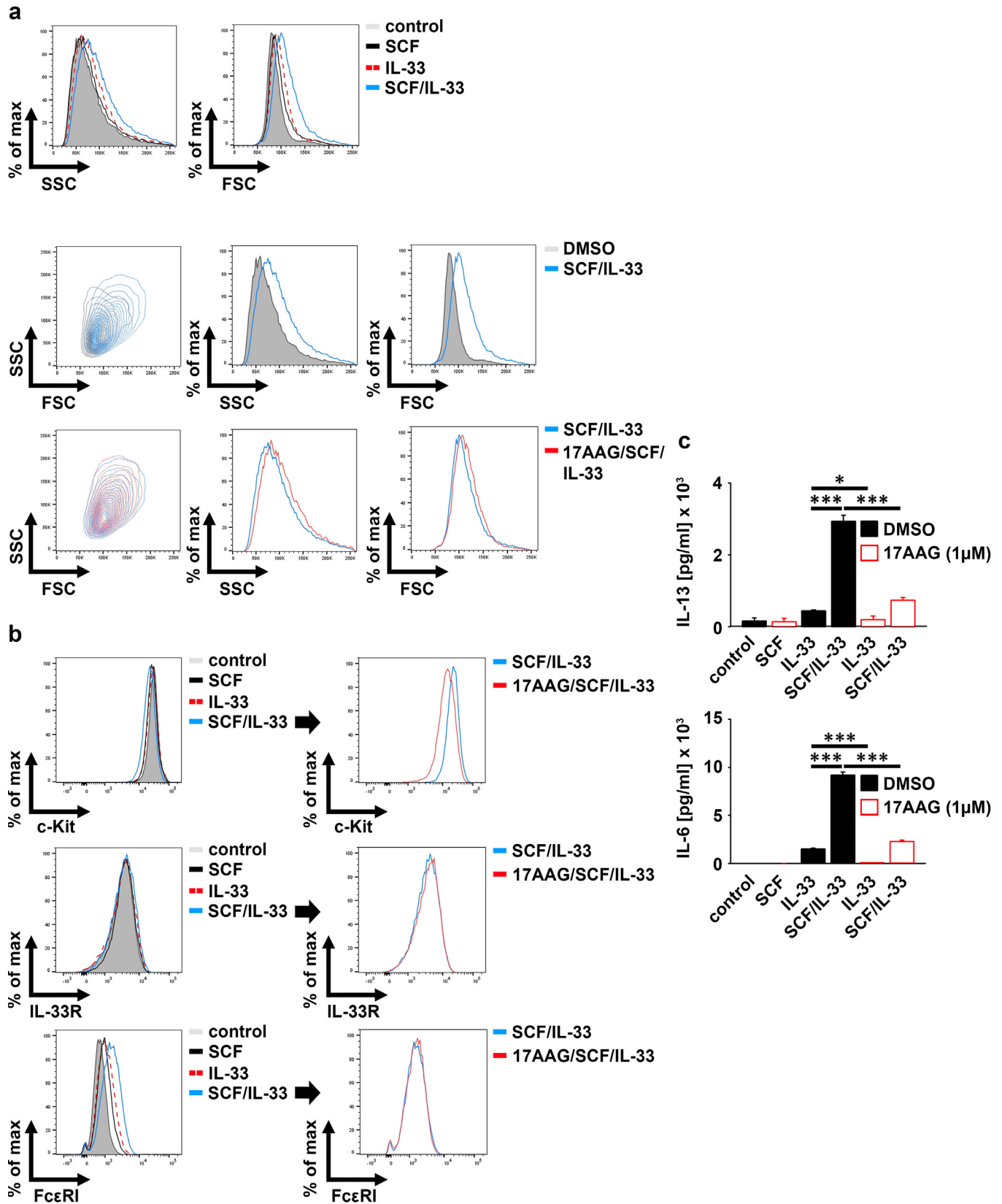


Figure S2. HSP90 mediates the SCF-supported and IL-33-induced cytokine production. **(a, b)** BMDCs treated with DMSO (vehicle) or 17AAG (1μM). Cells were stimulated with SCF or IL-33 or both together (both 50ng/ml) for 24h. Cells were analyzed by flow cytometry (representative experiments is shown). **(c)** BMDCs were treated with DMSO (vehicle) or 17AAG (1μM) and were stimulated with SCF or IL-33 or both together (both 50ng/ml) for 24h. Supernatants were collected and analyzed by ELISA (the summary of n=3 biological replicates is shown, unpaired students *t*-test; * *p* ≤ 0.05, *** *p* ≤ 0.001).

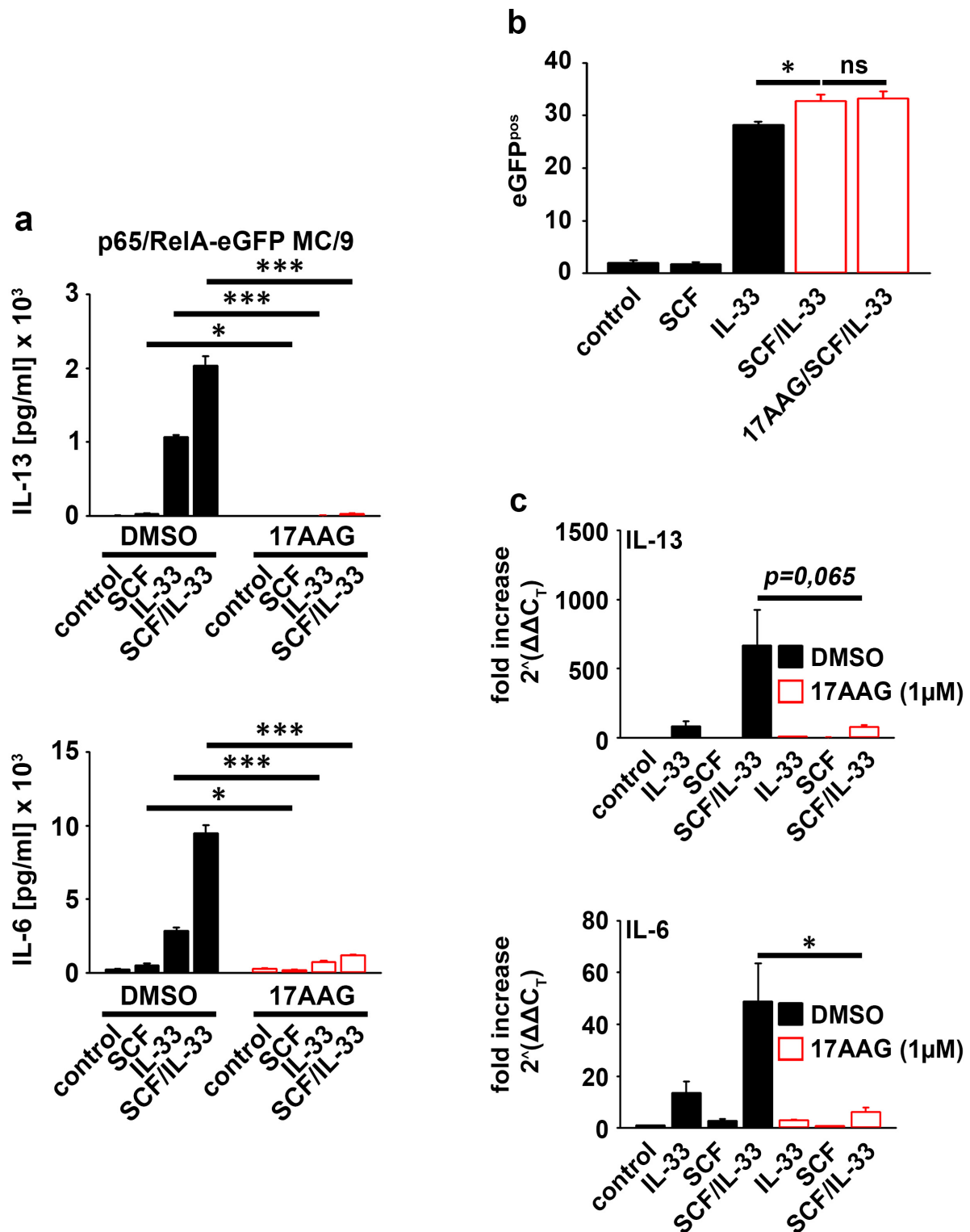


Figure S3. HSP90 mediates cytokine transcript stability. **(a)** P65/RelA-eGFP MCs were treated with DMSO (vehicle) or 17AAG (1 μ M). Afterwards, cells were stimulated with SCF or IL-33 or both together (both 50ng/ml) for 24h. Supernatants were collected and analyzed by ELISA (the summary of $n=3$ replicates is shown, unpaired students t -test; * $p \leq 0.05$, *** $p \leq 0.001$). **(b)** P65-eGFP MCs were treated with DMSO (vehicle) or 17AAG (1 μ M). Cells were stimulated with SCF or IL-33 or both together (both 50ng/ml) for 24h. Cells were analyzed by flow cytometry for eGFP expression (the summary of $n=3$ replicates is shown, ns not significant, unpaired students t -test; * $p \leq 0.05$). **(c)** BMSCs were treated with DMSO (vehicle) or 17AAG (1 μ M) and were stimulated with SCF or IL-33 or both together (50ng/ml) for 6h. Cells were harvested and analyzed by qPCR (the summary of $n=3$ biological replicates is shown, unpaired students t -test; * $p \leq 0.05$).