Materials and Methods

Intracellular Calcium concentration ([Ca\textsuperscript{2+}]\textsubscript{i}) of LSK cells

Mouse BM Lin\textsuperscript{-}Sca-1\textsuperscript{+}c-Kit\textsuperscript{+} (LSK) cells were obtained by flow sorting using the MoFlo FACS (DakoCytomation). The isolated cells were washed and loaded with 5 mM Fura-2/AM at 37°C for 45 min in the following solution: 119 mM NaCl, 4.75 mM KCl, 5 mM NaHCO\textsubscript{3}, 1.2 mM MgSO\textsubscript{4}, 1.18 mM KH\textsubscript{2}PO\textsubscript{4}, 2.54 mM CaCl\textsubscript{2}, 3 mM glucose and 20 mM HEPES (pH7.4). To detect the Fura-2 positive cells, cells were placed in a superfusion chamber under an IX71 inverted microscope (Olympus, Tokyo, Japan). [Ca\textsuperscript{2+}]\textsubscript{i} was measured using the Video-Imaging-System (Till Photonics, Munich, Germany). Cells were illuminated by an alternating excitation light of 340 nm and 380 nm wavelength using a monochromator (Till Photonics). Images were captured with an emission light of 510 nm wavelength using an image-intensifying CCD camera (SensiCam, PCO, Kelheim, Germany) and processed using an image processing system (TillVision, Till Photonics). The fluorescence ratios were determined at 10 s intervals. Calcium concentrations [Ca\textsuperscript{2+}]\textsubscript{i} were interpreted as the ratio between the fluorescence at 340 nm and 380nm.
**Figure S1. Specificity of polyclonal anti-Mig serum.** (A) Anti-Mig serum and control serum were raised in rats and diluted from 1:1000 to 1:100 000 for the binding of Mig expressing *E.coli* cell lysates. Control serum showed no specified bands, but anti-Mig serum selectively bound the Mig protein at dilutions of up to 1:10 000 (arrows). (B) Purified rMuMig (100 ng) was used as antigen in western blots, and we observed specific binding with anti-Mig serum at dilutions of 1:1000 and 1:5000 (arrows). Control serum remained negative.
**Figure S2. Calcium influx of LSK cells after Mig stimulation.** LSK cells were isolated and stimulated with 300 ng/mL rMuMig. Approximately 12.2% of the detected 123 LSK cells (from n=8 WT mice) demonstrated an increase in the calcium concentration several minutes following addition of Mig to the solution. (A) Cells from WT mice responded to Mig as shown by the fluorescence intensity of intracellular Fura-2. (B) None of the detected 46 LSK cells from n=4 CXCR3 KO mice responded to Mig. Mig was added to the cells at the time point indicated (arrow). The difference between WT and KO mice was significant. ($P < .05$, Chi-square test).