

Selective deletion of Jak2 in adult mouse hematopoietic cells leads to lethal anemia and thrombocytopenia

Jean Grisouard,¹ Hui Hao-Shen,¹ Stephan Dirnhofner,² Kay-Uwe Wagner,³ and Radek C. Skoda¹

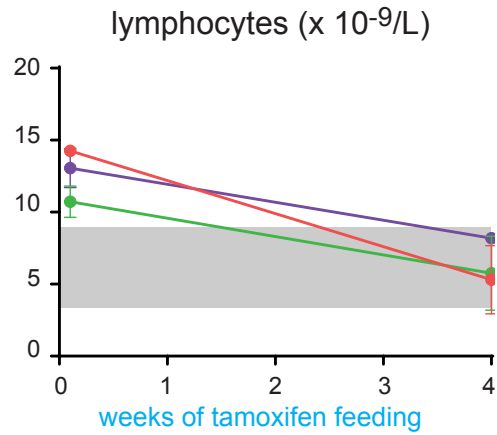
¹Department of Biomedicine, Experimental Hematology, University Hospital Basel, Basel, Switzerland; ²Institute of Pathology, University Hospital Basel, Basel, Switzerland; and ³Eppley Institute for Research in Cancer and Allied Diseases, University of Nebraska, Omaha, NE, USA

Correspondence: radek.skoda@unibas.ch

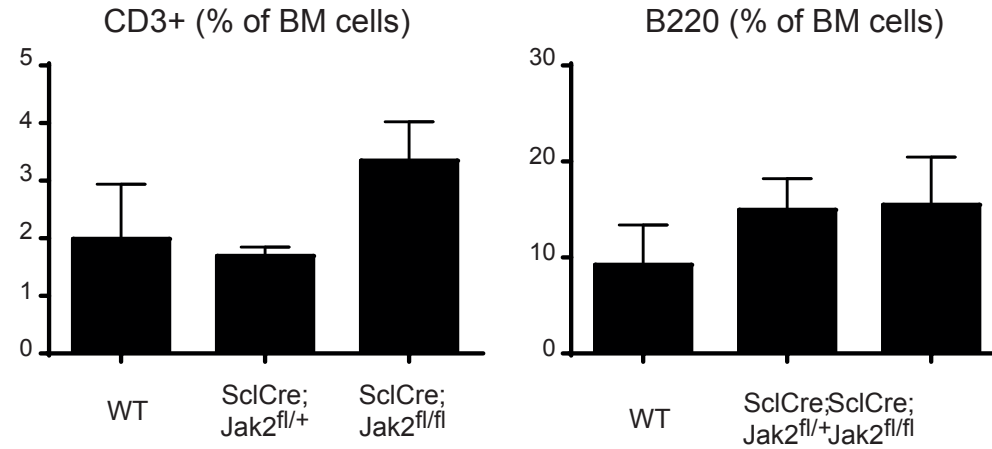
doi:10.3324/haematol.2013.100016

Supplemental Figure 1 Analysis of lymphoid compartment in SclCre;Jak2^{fl/fl} mice (same mice as in Figure 1).

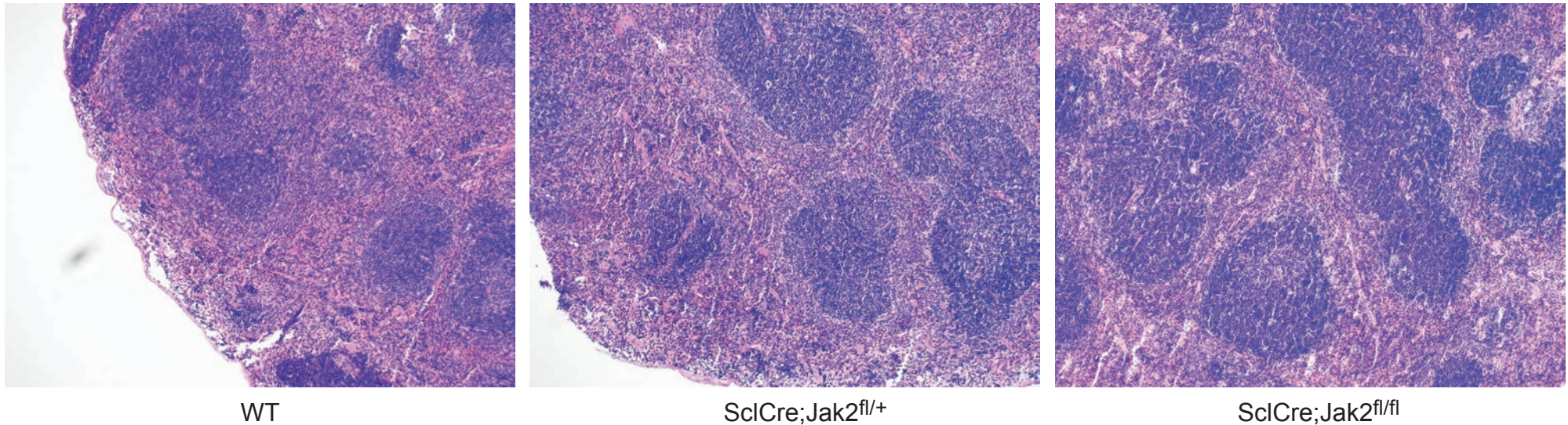
A Total lymphocyte counts in peripheral blood

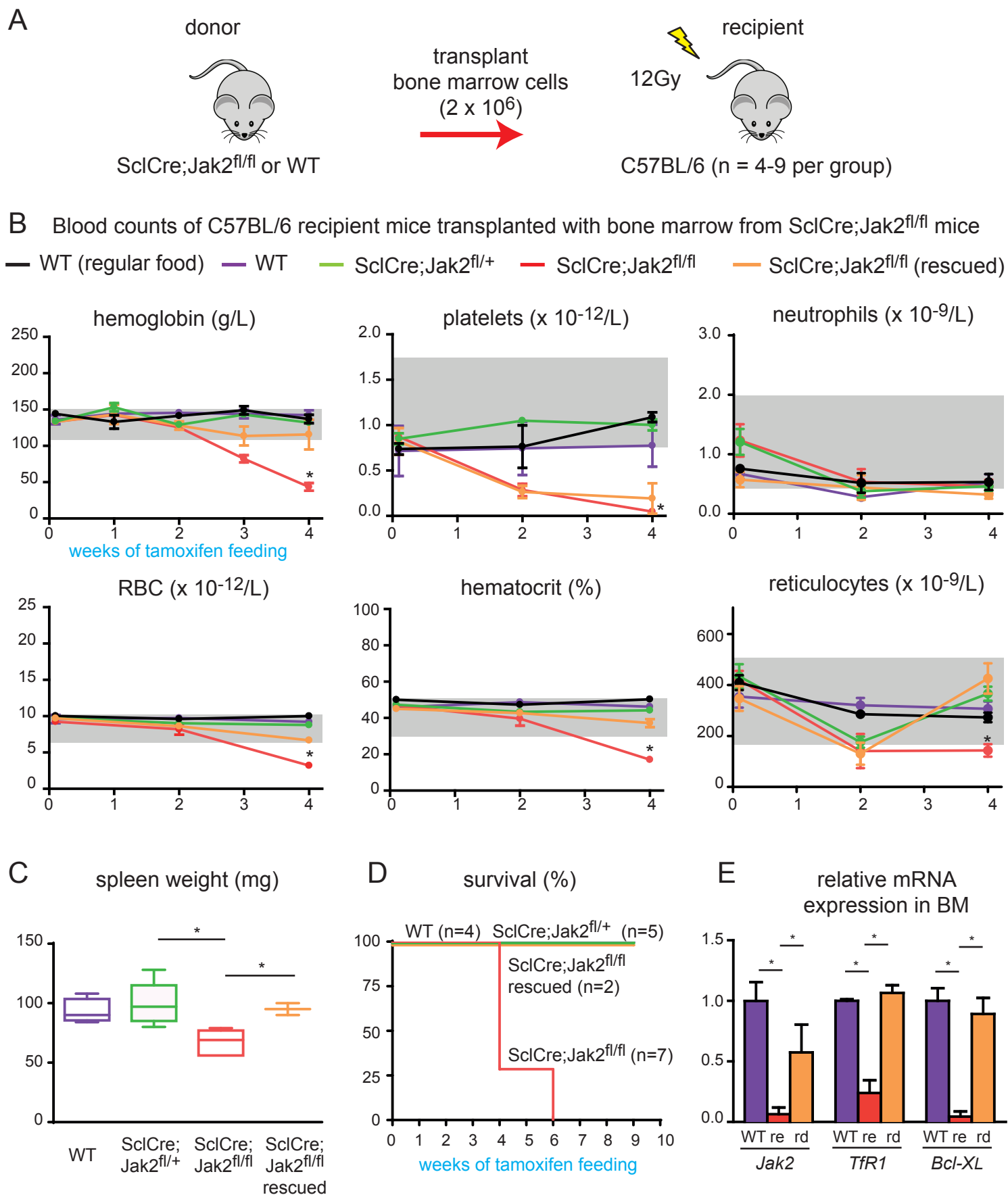


B Percentages of T-cells and B-cells in the bone marrow at 4 weeks of tamoxifen



C Histopathology of spleen sections stained with hematoxylin-eosin at 4 weeks of tamoxifen. Magnification 100x





Supplemental Figure 2. Deletion of Jak2 in hematopoietic cells transplanted into C57BL/6N recipient mice. A) Schematic drawing of the experimental setup. B) Blood counts of transplanted mice exposed to tamoxifen (1 mg/g food) are shown. *, p < 0.05. Hemoglobin values were determined once a week by Hemocue and complete blood counts were measured every 2 weeks by Advia120. C) Autologous reconstitution was determined as the percentage of GFP positive cells within peripheral blood. D) Spleen weight. E) Survival curve. F) Relative mRNA expression in bone marrow (BM) after four weeks of tamoxifen feeding determined by reverse transcription and quantitative PCR and normalized against GusB mRNA. WT, wild type; re, responder SciCre;Jak2^{fl/fl}; rd, rescued SciCre;Jak2^{fl/fl}.