Supporting Information

Heinrichs et al. 10.1073/pnas.1107023108

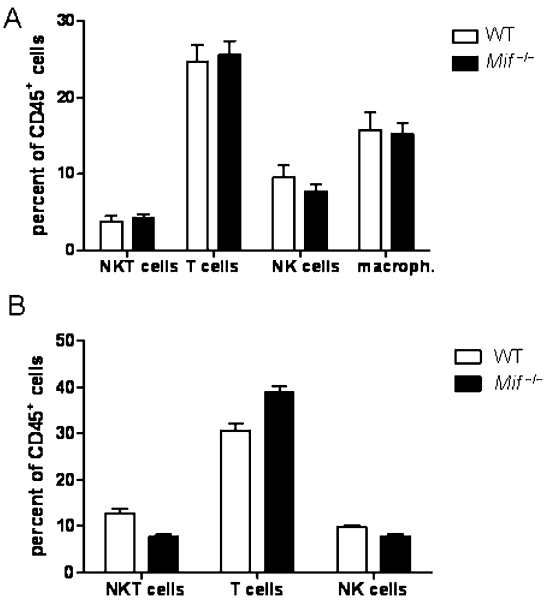

Fig. S1. (*A*) Immune cell infiltration in *macrophage migration inhibitory factor* (*Mif*) WT and *Mif*$^{-/-}$ mice after chronic carbontetrachloride (CCl_4) injury. Overall, the infiltration of NKT cells, T cells, NK cells, and macrophages shows no significant difference between the two strains. (*B*) Immune cell infiltration in *Mif* WT and *Mif*$^{-/-}$ mice after chronic thioacetamide injury. Overall, the infiltration of NKT cells, T cells and NK cells shows no significant difference between the two strains.

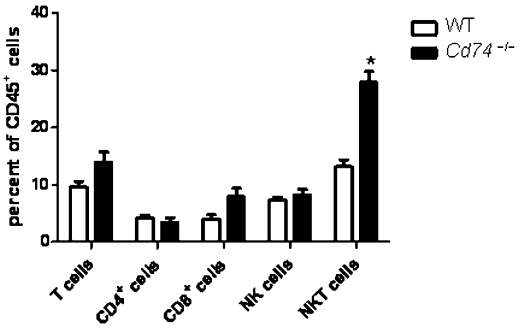

Fig. S2. Immune cell infiltration in *Cd74* WT and *Cd74*$^{-/-}$ mice after chronic CCl_4 injury. Overall, the infiltration of NK cells and $CD4^+$ cells shows no significant difference between the two strains. Total T cells are as well as $CD8^+$ cells are increased in the *Cd74*$^{-/-}$ mice, but this difference did not reach statistical significance. In contrast the infiltration of the NKT cells was significantly increased in the *Cd74*$^{-/-}$ mouse strain. $^*P < 0.05$.

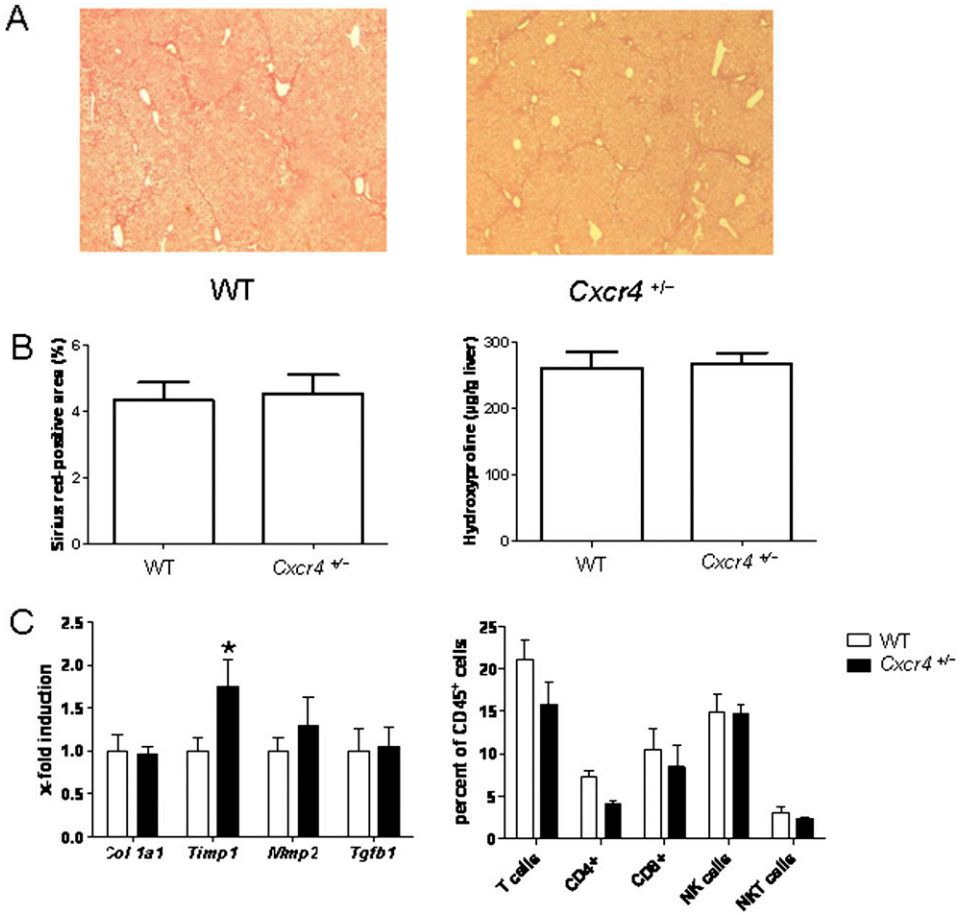

Fig. S3. Experimental liver fibrosis in *Cxcr4*$^{+/-}$ knockout mice after chronic CCl_4 injury. (*A*) Representative Sirius red staining of WT and *Cxcr4*$^{+/-}$ mice after challenge with CCl_4. (Magnification: 200×.) (*B*) No significant difference in *Cxcr4*$^{+/-}$ mice (n = 13 per group) is validated by the Sirius red-positive area and equal concentrations of hydroxyproline. (*C*) Expression of fibrosis-related genes in *Cxcr4*$^{+/-}$ mice. Treatment of *Cxcr4*$^{+/-}$ with CCl_4 leads to no significant difference mRNAs of *Col1a1*, *Mmp2*, and *Tgfb1* compared with WT mice. Only the mRNA expression of *Timp1* is significantly increased in the heterozygous knockout mice. The infiltration of NK cells and NKT cells shows no significant difference. Only the infiltration of total T cells is slightly, yet not significantly, decreased in the *Cxcr4*$^{+/-}$ strain, likely the result of a decreased infiltration rate of $CD4^+$ cells. *$P < 0.05$.

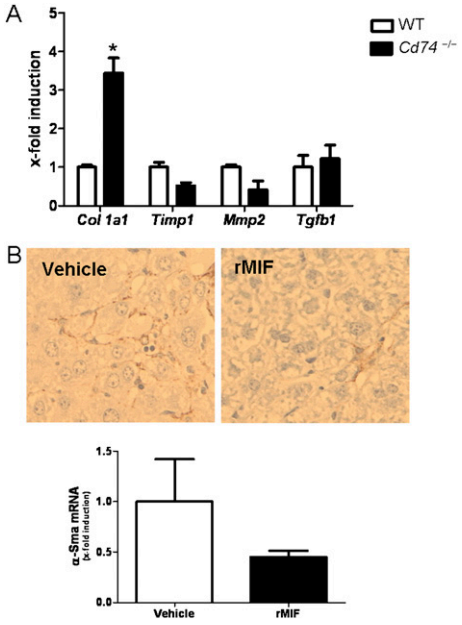

Fig. S4. (*A*) Significantly raised mRNA levels of *Col1a1* in *Cd74*$^{-/-}$ mice treated with CCl_4. mRNA levels of the other fibrosis-related genes *Timp1*, *Mmp2*, and *Tgfb1* show no difference between the *Cd74*$^{-/-}$ and WT strains under these experimental conditions. (*B*) α-Smooth muscle actin (α-Sma) expression after treatment of mice with recombinant MIF or vehicle concomitantly to CCl_4. Treatment with rMIF resulted in reduced histological α-Sma protein (*Upper*) (magnification: 200×) and α-Sma mRNA expression (*Lower*). Asterisks indicate statistical significance: $*P < 0.05$.