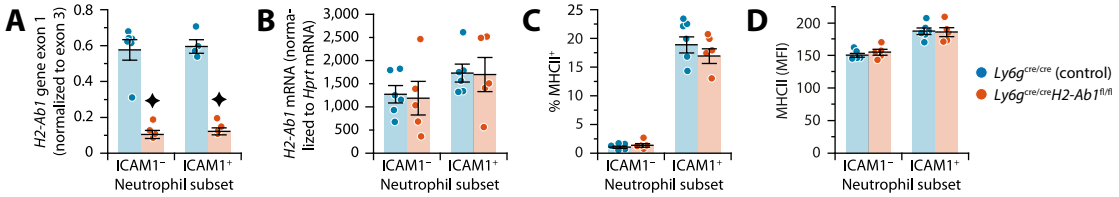
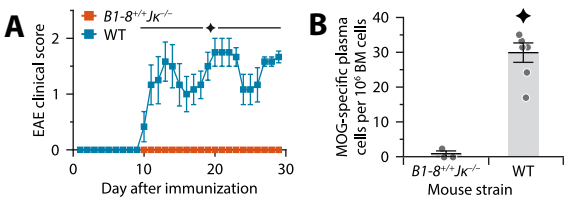


Supplementary Figure 1. Cre-mediated excision of the *H2-Ab1* gene in neutrophils does not reduce *H2-Ab1* mRNA and surface MHCII. (**A**) Quantification of the *H2-Ab1* gene exon 1 (floxed) by qPCR in neutrophil subsets purified by FACS from the spinal cord of *Ly6g*$^{cre/cre}$ (Catchup) and *Ly6g*$^{cre/cre}$*H2-Ab1*$^{fl/fl}$ mice with EAE. Data were normalized to exon 3 (not floxed). Stars indicate significant excision (> 80%), as determined by Wilcoxon test ($P < 0.0001$). Sample size: 4-6 mice per group. (**B**) Quantification of *H2-Ab1* mRNA by RT-qPCR in spinal cord neutrophils using primers directed at exon 1. Data were normalized to *Hprt* mRNA and revealed no intergenotype difference. Sample size: 5-6 mice per group. (**C** and **D**) Flow cytometric analysis of MHCII showing no difference in the percentage of neutrophils that were positive for MHCII (**C**) nor in the amount of MHCII on the surface of these cells (**D**). MFI, median fluorescence intensity. Sample size: 5-6 mice per group.



Supplementary Figure 2. B cells are essential for EAE induction with bMOG. (**A**) EAE score over time in *B1-8*$^{+/+}$ *Jκ*$^{-/-}$ mice and wild-type controls (WT) immunized with bMOG. Star indicates a significant intergenotype difference per time point identified by post hoc Wilcoxon test ($P < 0.0001$). Sample size: 6 (WT), 4 (*B1-8*$^{+/+}$*Jκ*$^{-/-}$). (**B**) Detection of $MOG_{1\text{-}125}$-specific plasma cells by ELISpot in bone marrow (BM) from WT and *B1-8*$^{+/+}$*Jκ*$^{-/-}$ mice at day 29 post-immunization. Star indicates a significant difference, as determined by Student's *t* test ($P < 0.0001$). Sample size: 6 (WT), 3 (*B1-8*$^{+/+}$*Jκ*$^{-/-}$). Each mouse was tested in triplicate.