

Supporting Information

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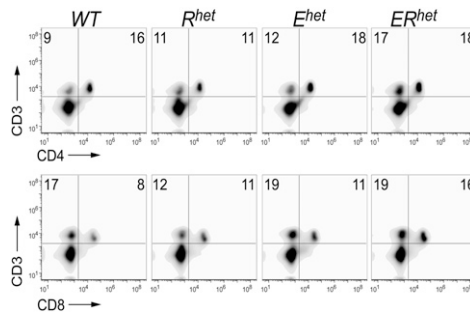


Fig. S1. Similar distributions of CD4⁺ and CD8⁺ T cells in spleens of *WT* and haploinsufficient mice. Cells were harvested from spleens of 4- to 6-week-old mice and analyzed using flow cytometry. CD3(PE) antibody was obtained from BD Pharmingen. CD4(FITC) and CD8(APC) antibodies were obtained from eBioscience. Flow cytometry was performed using an Accuri Cytometer.

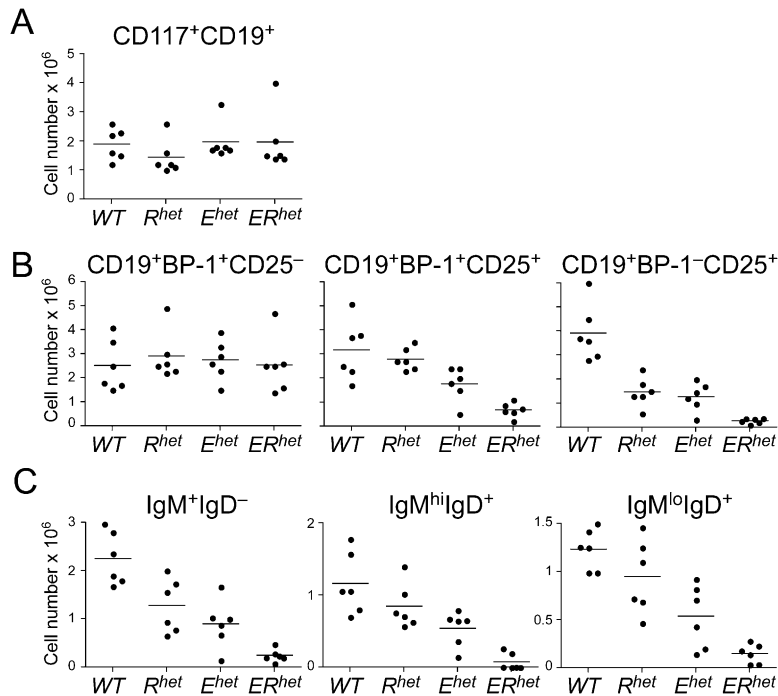


Fig. S2. Numbers of cells in developmental populations within the bone marrow of *WT* and haploinsufficient mice. (A) Numbers of CD117⁺CD19⁺ cells in bone marrow of mice in Fig. 1C. (B) Numbers of CD19⁺ cells expressing BP-1 and/or CD25 in bone marrow of mice in Fig. 1D. (C) Numbers of cells in populations of IgM⁺IgD⁻, IgM^{hi}IgD⁺, and IgM^{lo}IgD⁺ bone marrow-derived cells described in Fig. 1F.

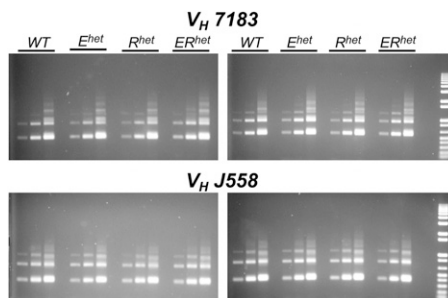


Fig. S3. Frequencies of Ig heavy chain gene rearrangements in pre-B cells of *WT* and haploinsufficient mice. Semiquantitative analysis of *V_H7183* and *V_HJ558* rearrangements was performed using DNA and PCR conditions as in Fig. 3. Primers are described in Table S1.

Table S1. PCR primers used in these studies

Primers used for qPCR in Figs. 2 and 4	
<i>Cd79a</i> F	5'-GGACGCTGCTGCTATTCAGGAA-3'
<i>Cd79a</i> R	5'-CAGACATATGGCAGGCAGGGAA-3'
<i>Cd79b</i> F	5'-AGACCCCTCCTCATCATCCTTCA-3'
<i>Cd79b</i> R	5'-CTTCATAGGTGGCTGTCTGGTCAA-3'
<i>Vpreb1</i> F	5'-GCTCATGCTGCTGGCCTATC-3'
<i>Vpreb1</i> R	5'-TCCAAGGAAGAAGATGCTAATG-3'
<i>Igll1</i> F	5'-TTGGTATGTCTTTGGTGGTGGGAC-3'
<i>Igll1</i> R	5'-TAAGGAAGGCAGGAACAGAGTGAC-3'
<i>Rag1</i> F	5'-CCCAAGAGACTGTAGACGCAGTTT-3'
<i>Rag1</i> R	5'-GGACACTCTTAGCGGGACATGAA-3'
<i>Ebf1</i> F	5'-GCCTTCTAACCTGCGGAAATCAA-3'
<i>Ebf1</i> R	5'-GGAGCTGGAGCCGGTAGTGGAT-3'
<i>Runx1</i> F	5'-GCCACCTACCATAGAGCCATCAA-3'
<i>Runx1</i> R	5'-CCAATTCAGTGGCCGCTCGGAA-3'
<i>Pax5</i> F	5'-GCTGGACAGGGCAGCTACTC-3'
<i>Pax5</i> R	5'-TGTAGGGACTTCCAGAAAATTCACT-3'
<i>Irf4</i> F	5'-GGCAAGCAGGACTACAATCGTG-3'
<i>Irf4</i> R	5'-TTGGCTCCCTCTGGAACAATCC-3'
<i>Irf8</i> F	5'-TTACAATCAGGAGGTGGATGCTTC-3'
<i>Irf8</i> R	5'-GTCACTTCTTCAAATCTGGGCTC-3'
<i>Ikzf3</i> F	5'-ACAGCAGACCAACCGGTGGGAA-3'
<i>Ikzf3</i> R	5'-ACTGGAACGGGCGTTCGC-3'
<i>Cd25</i> F	5'-GCTCACCTGGCAACACAGATGG-3'
<i>Cd25</i> R	5'-GGAAACAGCCGTTAGGTGAATGCT-3'
<i>Cd2</i> F	5'-GGATCCCTGAAGATAAAGAAGCCGAT-3'
<i>Cd2</i> R	5'-GGTCAGGGTTGTGTTGGGGCAT-3'
<i>Igκ0</i> F	5'-CCACATGCCTTCTTCAGGGACAAGTGGGA-3'
<i>Igκ0</i> R	5'-GTTATGTCGTTCACTACTGTCCTTGGTCAAC-3'
<i>Hprt</i> F	5'-GGGGGCTATAAGTTCTTTGCTGACC-3'
<i>Hprt</i> R	5'-CCTGTATCCAACACTTCGAGAGGTCC-3'
<i>β-actin</i> F	5'-GCTCTGGCTCCTAGCACCAT-3'
<i>β-actin</i> R	5'-GCCACCGATCCACACAGAGT-3'
Primers used for PCR in Fig. 3 and Fig. S3	
<i>V_H7183</i>	5'-CAGCTGGTGGAGTCTGGGGGA-3'
<i>V_HJ558</i>	5'-TCCAGCACAGCCTACATGCAGCTC-3'
<i>J_H3</i> down	5'-ATTCTACAAGAGTCCGATAGACCCTGG-3'
<i>V_κ(all)</i>	5'-GGCTGCAGSTTCAGTGGCAGTGGRT-3'
<i>J_κ1/2</i>	5'-TACTTACGTTTGATTTCAGCTTGGT-3'
<i>V_λ1/2</i>	5'-CAGGGGCACAGACTGAGGATG-3'
<i>J_λ</i>	5'-CAGGGGCACAGACTGAGGATG-3'
<i>J_λ2</i>	5'-GCTGGGCTTATTAGGAAGAAGC-3'
<i>J_λ3</i>	5'-GCCTAGACTTATTAGGAAGA-3'
<i>Actin</i>	5'-AGGCATGGAGTCTGTGGTATC-3'
<i>Actin</i> R	5'-AGCCACAGGTCTAAGGCCAG-3'