SUPPLEMENTARY DATA

**Supplementary Table 1. % Donor- and host-type blood mononuclear cells in mixed chimeric NOD at different time points after MHC-mismatched HCT**
**(Mean ±SE, N=4)**

| | | TCRβ$^+$ | B220$^+$ | MAC1/Gr1$^+$ |
|---|---|---|---|---|
| 3 Weeks | Donor-type | 26.6 ±9.1 | 59.9±12.1 | 12.7 ±3.0 |
| | Host-type | 73.4 ±9.1 | 40.1 ±12.1 | 87.3 ±3.0 |
| 7 Weeks | Donor-type | 61.3 ±7.7 | 60.6 ±17.6 | 22.3 ±7.3 |
| | Host-type | 38.7 ±7.7 | 39.4 ±17.6 | 77.7 ±7.3 |
| 14 Weeks | Donor-type | 59.4 ±16.3 | 55.2 ±16.8 | 23.8 ±6.6 |
| | Host-type | 40.6 ±16.3 | 44.8 ±16.8 | 76.2 ±6.6 |

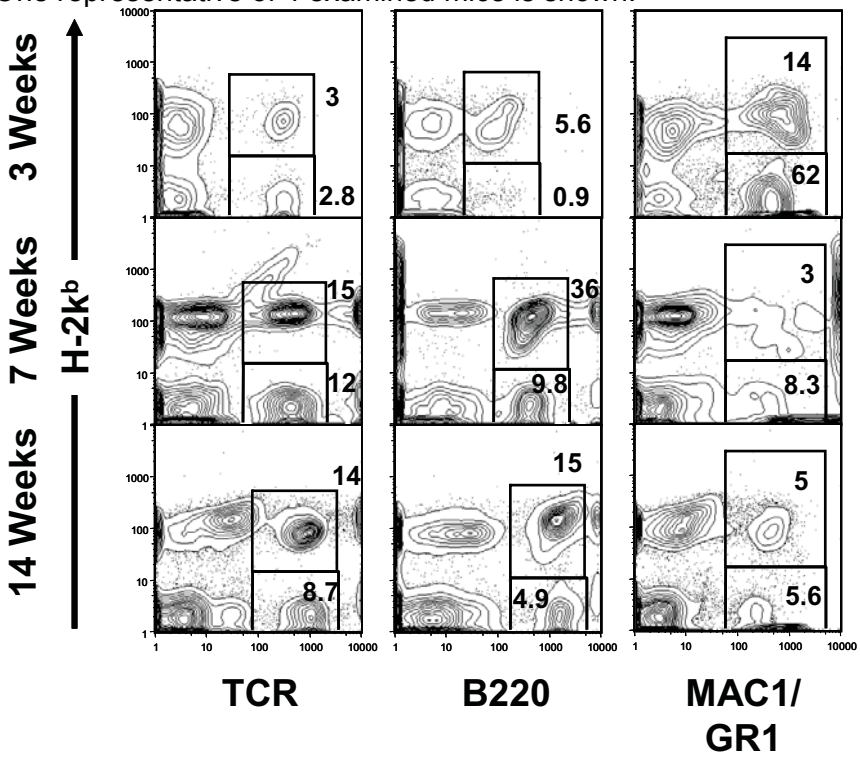
NOTE: Donor-type cells were defined as H-2k$^{b+}$and host-type cells were defined as H-2k$^{b-}$; no significant difference was found with percentage of donor- or host-type cells between 7 and 14 weeks after HCT.

**Supplementary Table 2. % H-2k$^{b+}$ or H-2k$^{b-}$ T, B, Macrophages/granulocyte, and dendritic cells in spleen of C57BL/6**
**(Mean ±SE, N=4)**

| | | TCRβ$^+$ | B220$^+$ | MAC1/Gr1$^+$ | CD11c$^+$ |
|---|---|---|---|---|---|
| C57BL/6 | H-2k$^{b+}$ | 100 ±0 | 99.0 ±0.2 | 92.0 ±1.8 | 98.7 ±0.5 |
| | H-2k$^{b-}$ | 0 ±0 | 1.0 ±0.2 | 8.0 ±1.8 | 1.3 ±0.5 |

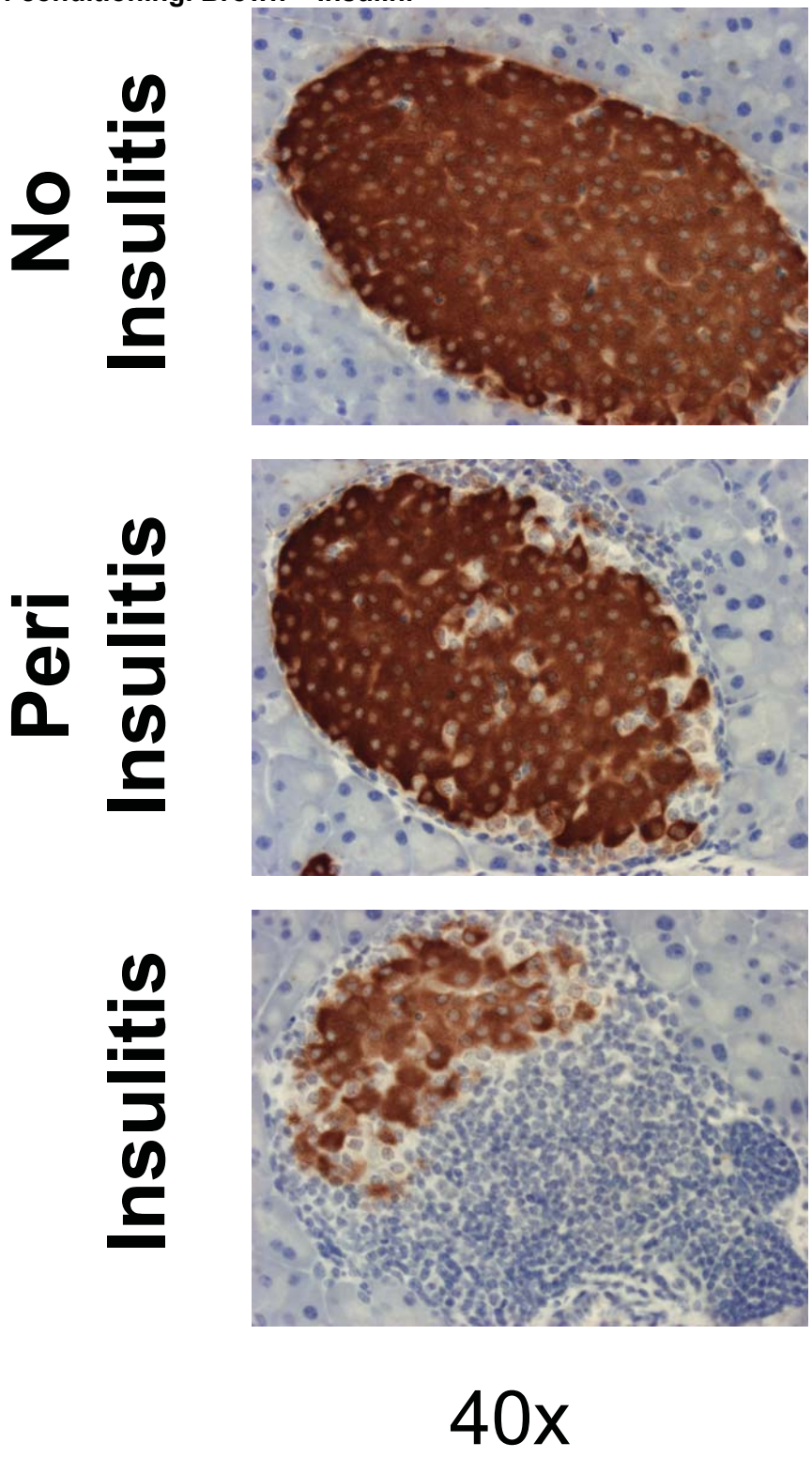
SUPPLEMENTARY DATA

**Supplementary Figure 1. Mixed chimerism in NOD recipients conditioned with radiation free anti-CD3 based regimen**. WT NOD mice were conditioned with anti-CD3/CD8 (5μg each) on days -10 and -5. On day 0, the conditioned mice were transplanted with graded doses (5-20x$10^6$ each) of $CD4^+$ T cell-depleted splenocytes and whole BM from WT C57BL/6 donors to induce chimerism. Chimerism was judged by analysis of donor- and host-type peripheral blood mononuclear cells at 3, 7, and 14 weeks after HCT. One representative of 4 examined mice is shown.

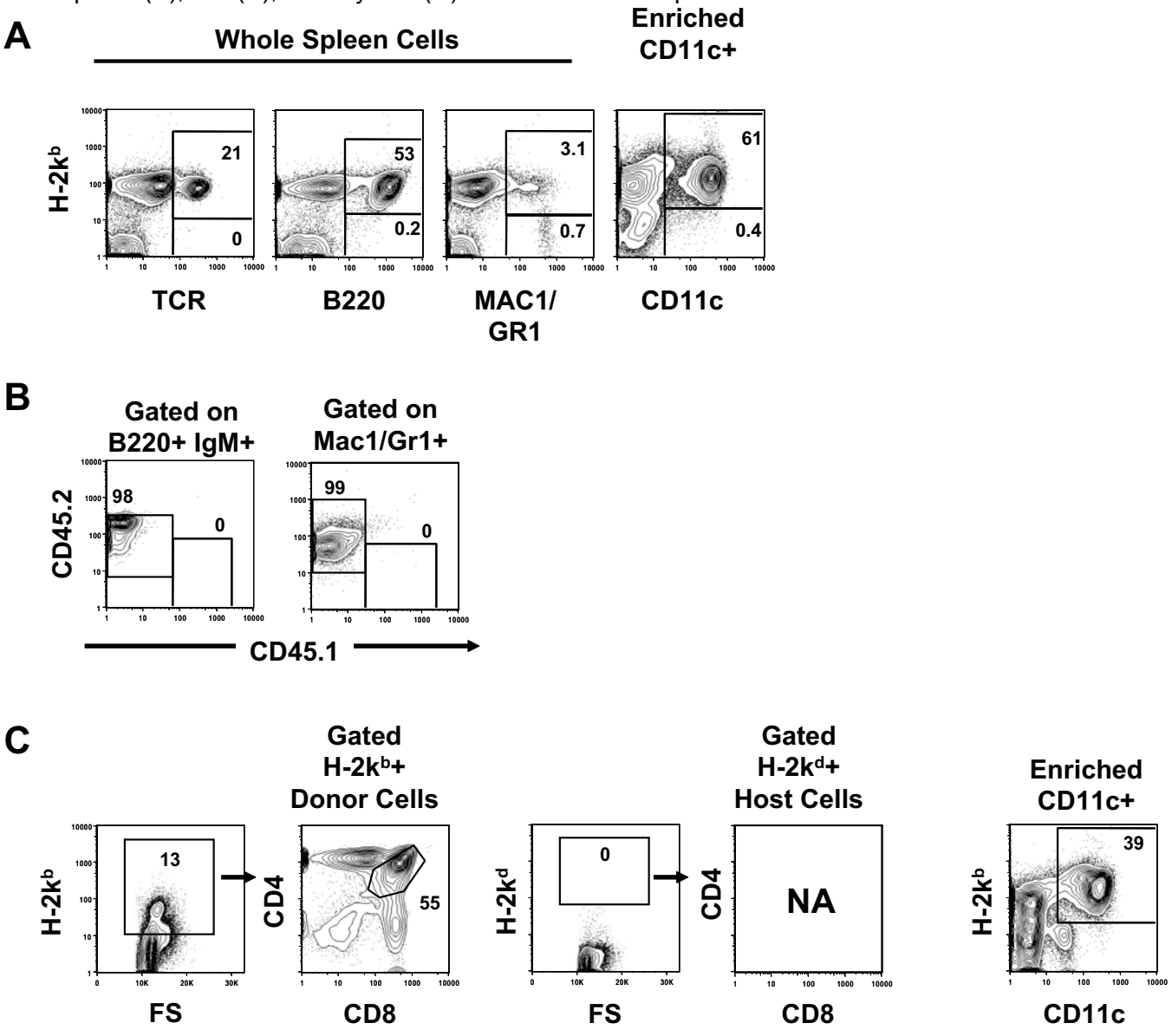


SUPPLEMENTARY DATA

**Supplementary Figure 2. Representative insulitis levels from Conditioning Alone mice, ~70 days after first round of conditioning. Brown – Insulin.**



**Supplementary Figure 3. Donor-type control staining.** Spleen, BM, and thymus cells of WT C57BL/6 donors were stained with anti-H-2k$^b$ vs anti-TCRβ, B220, MAC-1/Gr-1 or CD11c. Expression of H-2k$^b$ by TCRβ$^+$ T cells, B220$^+$ B cells, MAC-1/Gr-1$^+$ macrophages/granulocytes, and CD11c$^+$ DCs from spleen (A), BM (B), and thymus (C) are shown. One representative of 4 examined mice is shown.



SUPPLEMENTARY DATA

**Supplementary Figure 4 - No expansion of T cells expressing transgenic TCR Vβ4 coupled with endogenous Vαs in mixed chimeric BDC2.5-NOD recipients**. Transgenic BDC2.5 NOD were conditioned with anti-CD3 (5μg) on day -7. On day 0, the conditioned mice were transplanted with BM cells ($50x10^6$) from C57BL/6 donors. 60 days after HCT, peripheral blood mononuclear cells were analyzed for $V\beta4^+$ $CD4^+$ T cell expression of endogenous Vα2, Vα8.3 and Vα11. WT-NOD and BDC2.5-NOD without HCT were used as controls. Gated $CD45.2^-$ $V\beta4^+CD4^+$ or $V\beta4^-CD4^+$ host-type T cells are shown in Vβ4 vs Vα2, Vα8.3, Vα11. One representative staining pattern of 4 examined mice is shown. Mean±SE of $V\beta4^+V\alpha^+$ or $V\beta4^-V\alpha^+$ cells amongst gated $CD4^+$ T cells is shown.