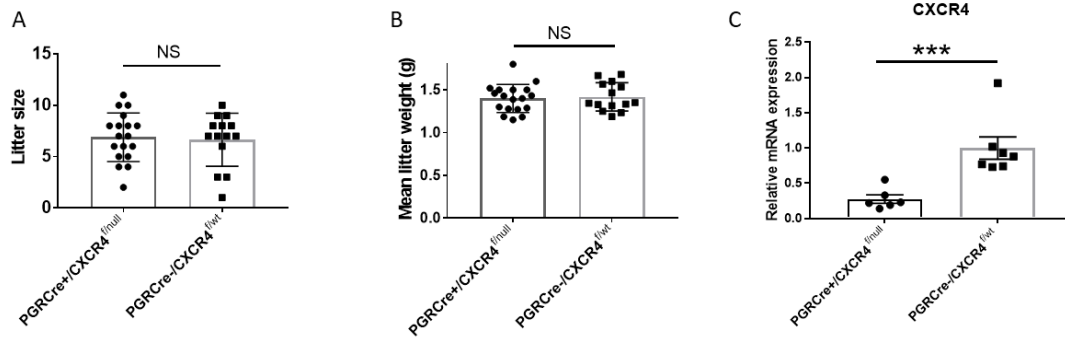
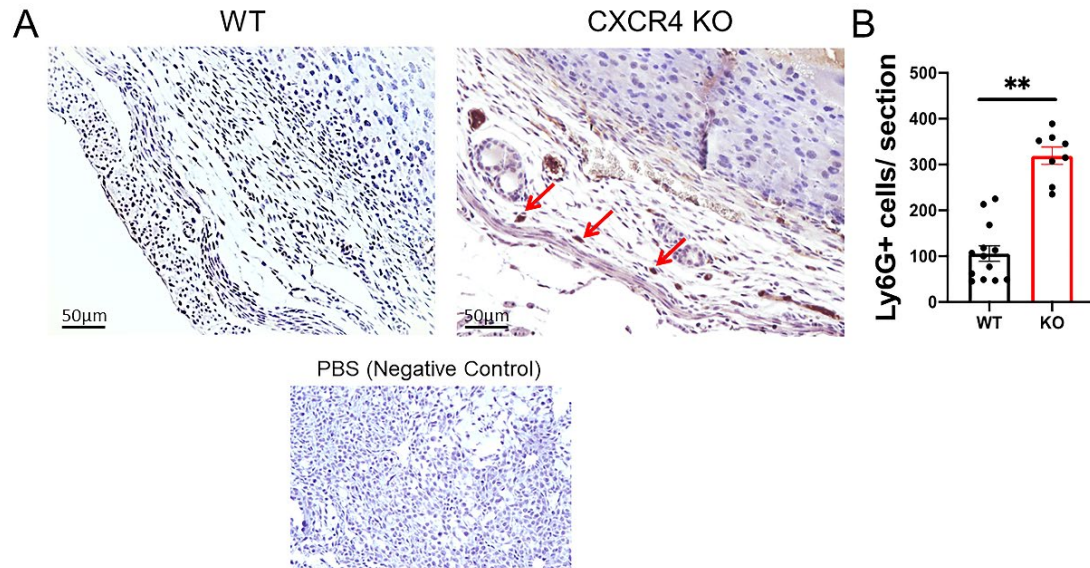


Supplementary Figures

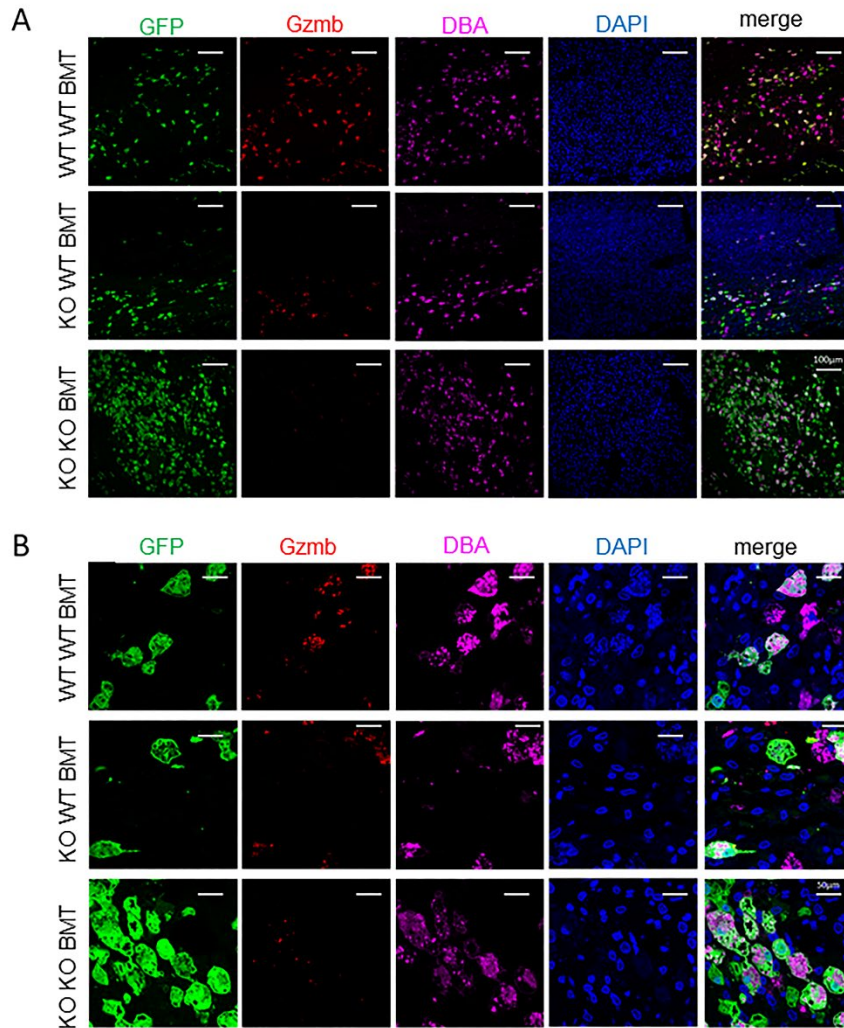
Supplementary Figure 1. (A) Litter size of PGRCre+/CXCR4^{f/null} and PGRCre-/CXCR4^{f/wt}. (B) Mean litter weight (grams) of PGRCre+/CXCR4^{f/null} and PGRCre-/CXCR4^{f/wt}. N=14-18/group. (C) CXCR4 relative mRNA expression in uterine tissue of PGRCre+/CXCR4^{f/null} and PGRCre-/CXCR4^{f/wt} mice. ***p<0.001.



Supplementary Figure 2. (A) Histological sections of decidua from E10.5 WT and CXCR4 KO mice showing immunostaining for the granulocyte marker Ly6G. Red arrows are pointing to more abundant Ly6G⁺ granulocytes in CXCR4 KO decidua. Bottom image is no primary antibody (PBS) negative control. Scale bar, 50 μ m. (B) Quantitation of the number of Ly6G⁺ cells (granulocytes) per section in decidua of WT and KO mice. ** $p < 0.01$.



Supplementary Figure 3. (A-B) Immunofluorescence sections of decidua from WT^{WT-BMT}, KO^{WT-BMT} and KO^{KO-BMT} mice. Co-immunostaining showing BM-derived GFP (green) cells, Gzmb (red), DBA+ NK cells (magenta) and DAPI nuclear staining (blue). Upper panel (A) scale bar, 100 μ m. Bottom panel scale bar, 50 μ m. Note the presence of BM-derived GFP+ cells that are positive for DBA (NK cell marker) and GZMB in KO^{WT-BMT} indicating restoration of functional NK cells with GZMB+ secretory granules, similar to control WT^{WT-BMT}. This is in contrast to KO^{KO-BMT} mice in which all the decidual BM-derived GFP+ cells are devoid of GZMB.



Supplementary Figure 5. Mean GAPDH Ct values of RT-PCR experiments from decidual and placental tissues.

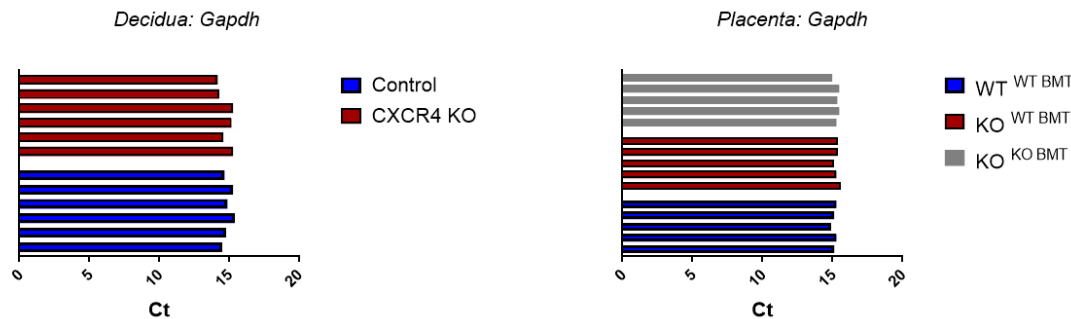


Table 1. Antibodies used.

Antibodies	Source	Identifier
Anti-mouse CD3 Pacific Blue	Biolegend	Cat#100214
Anti-mouse CD25 PE-Cy7	Biolegend	Cat #101904
Anti-mouse CD4 Alexa 700	Biolegend	Cat #108910
Anti-mouse NK1.1 APC-A	Biolegend	Cat #108710
Anti-mouse F4/80 BV711-A	Biolegend	Cat #123147
Anti-mouse Ly6G PerCP	Biolegend	Cat #127654
Anti-mouse CD45 Alexa 605	Biolegend	Cat #103140
Anti-mouse CD11b APC-Cy7	Biolegend	Cat #101226
Anti-mouse Gzmb	Abacm	Cat#ab255598
Anti-mouse CD3	Abacm	Cat#ab135372
Anti-mouse Ly6G	Abacm	Cat#ab25377
GFP	Invitrogen	Cat#G10362
Goat anti-rabbit biotinylated	Vector	BA-1000
Donkey anti-rabbit Alexa Fluor 568	ThermoFisher	A10042

Table 2. Primers used

Gene	Primers	Product (bp)
Ccl2	AGGTGTCCCAAAGAAGCTGTA GGACCCATTCTTCTTG	79
Ccl3	AGCTGACACCCCGACTGCCT TCAGGAAAATGACACCTGGCTGGGA	116
Ccl5	AGCCAGCTGTGGTATTCCTGACCA TCATGTACTCAGTGACCCAGGGCT	81
Ccr5	ATTCTCCACACCCTGTTTCG GTTCTCCTGTGGATCGGGTA	388
Cxcr4	AGAAGCTAAGGAGCATGACGG GCGTGGACAATAGCGAGGT	223
Cxcl12	GAGCCAACGTCAAGCATCTG CGGGTCAATGCACACTTGTC	101
Il1b	GGACCCCAAAAGATGAAGGGCTGC GCTCTTGTTGATGTGCTGCTGCG	99
Il6	CCTCTCTGCAAGAGACTTCC CTCCGGACTTGTGAAGTAGG	87
Il12b	AACCAGAAAGGTGCGTTCCTC ATGCCCCACTTGCTGCATGA	118
Cxcl1	CCTGCAGACCATGGCTGGGAT GTGTGGCTATGACTTCGGTTTGGG	98
Cxcl2	GTTTGCCTTGACCCTGAAGCCCC CCAGGTCAGTTAGCCTTGCCTTTGT	80
Csf2	TCGAGCAGGGTCTACGGGGC GTCCGTTTCCGGAGTTGGGGG	101
Il8	<i> TTCAGAGACAGCAGAGCACA</i> <i> AGCACTCCTTGGCAAACTG</i>	170
Vegfa	GTGCACTGGACCCTGGCTTTA GGTCTCAATCGGACGGCAGTA	147
Angpt2	GCTGAAGGACTGGGAAGGC GGACTCTTCACCAGCGAGGTA	70
Hif1 α	<i> GCAGCAGGAATTGGAACATT</i> <i> GCATGCTAAATCGGAGGGTA</i>	150
Tnfa	ATGGCCCAGACCCTCACACTCA TGGTGGTTTGCTACGACGTGGG	80
Tgf β 1	<i> GTTGAGGAAACAAGCCCAGA</i> <i> GTTACCCAGGCTGGTCTCAA</i>	199
Nfkb	TCCACTGTCTGCCTCTCTCGTC GCCTTCAATAGGTCCTTCCTGC	197
Lox-1	GTGGTCCCTGCTGCTATGAC CTGAGTAAGGTTGCTTGGTATTG	127
Il10	GCGGCTGAGGCGCTGTCAT GGCCTTGTAAGACACCTTGGTCTTGG	109

Il18	GAGGGCCACACAAGTCGC	157
	GCTGGGCCAGAATGATGTGA	
<u>Klrd1</u>	GGCCTCTGTGGTGGAATAAC	243
	TGTTCCCTCTGAGTGCCGAC	
Klre1	TAAGAGACAAGCAGGCACGCTGACTG	433
	ATGGATGAAGCACCTGTAACCCG	
Klrg1	GGCTTGAGGAACATTGATGG	76
	TCAAGCTGTTGGTAAGAATCCTC	
Prf1	ATGAGCAGAGCCCGGTGGCA	127
	GTCGTGGGCAGCAGTCCTGG	
Gzmd	AGCTGGAGCAGAGGAGATCA	172
	TTGGACAGAGCTGTTTTTGC	
Gzmg	GATTCTCCTGACCCTACTTC	547
	CTGCGTGGTCTTGAATAGG	
Gapdh	GCCTGCTTCACCTTCTT	188
	ATGGCCTTCCGTGTTCTAC	
Gzmb	GATATGTGGGGGCTTCCTTA	382
	CTCACACTCCCGATCCTTCTG	
Gzme	ACCTCCTTCCTCCCTTCC	130
	CTCCTCTGCTCCAGCTCCA	
Gzmf	CACTGGAAGCTCAATGAGAGTCATAC	134
	TGATGTCAGTGGTGTGTCCTTATC	
Ifng	CTTCTTCAGCAACAGCAAGG	101
	TGAGCTCATTGAATGCTTGG	
Ctsw	CACTCTGTCTTGCTGGTGGG	103
	TCCAGTATGGGGAGGAGTGG	
Igf2	CGCTTCAGTTTGTCTGTTCG	95
	GCAGCACTCTTCCACGATG	
Lifr	CTTCGATCCTCAACACAGAGC	360
	TGGTTAGTGCACCCATAGAGG	
Plgf	TGCTGGTCATGAAGCTGTTC	222
	GGACACAGGACGGACTGAAT	
Tpbpa	AAATGAGTGCCTCCGGTCAG	152
	AAACCCATCGCCACTCTCTG	
Tgfb1	TATACTGAGACACCTTGG	83
	GTGATAGTCCTGAATAATTTG	