Supporting Information

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SI Text

The sequences of PCR primers:

TNF-α: forward primer: 5'-ATGGCCTCCTCATCAGT-3'; reverse primer: 5'-GCTCCTCCACTTGGTGGTTT-3'.

IL-12a: forward primer: 5'-TGGCTACTAGAGAGACTTCT-TCCACAA-3'; reverse primer: 5'-GCACAGGGTCATCAT-CAAAGAC-3'.

IL-12b: forward primer: 5'-TGGTTTGCCATCGTTTTGC-TG-3'; reverse primer: 5'-ACAGGTGAGGTTCACTGTTTCT-3'.

IL-6: forward primer: 5'-GAGGATACCACTCCCAACAGA-CC-3'; reverse primer: 5'-AAGTGCATCATCGTTGTTC-ATACA-3'.

IFN-β: forward primer: 5'-CCCAGTGCTGGAGAAATTGT-3'; reverse primer: 5'-CCCTATGGAGATGACGGAGA-3'.

B and T lymphocyte attenuator: forward primer: 5'-GTC-TGCCTGCTCTGCTTTCT-3'; reverse primer: 5'-ATGGC-AGTGCTTGGTGATTT-3'.

β-actin: forward primer: 5'-GCTCTGGCTCCTAGCACCAT-3'; reverse primer: 5'-GCCACCGATCCACACAGAGT-3'.

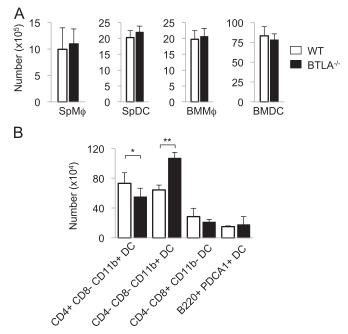


Fig. S1. The development of dendritic cells (DCs) and macrophages (M ϕ s) in B and T lymphocyte attenuator-deficient (BTLA^{-/-}) mice. Splenocytes from BTLA^{-/-} mice and littermate WT mice were analyzed by flow cytometry. (A) Data are mean \pm SD of the number of DCs (CD11c⁺ MHC II⁺ cells) and M ϕ s (F4/80⁺ CD11b⁺ cells; n=8). Mean \pm SD of the numbers of bone marrow-derived M ϕ s (BMM ϕ s) and bone marrow DCs (BMDCs) recovered from the culture is also shown (n=8). (B) Data are mean \pm SD of the number of subpopulation of splenic DCs (n=8). *P<0.05, **P<0.01.

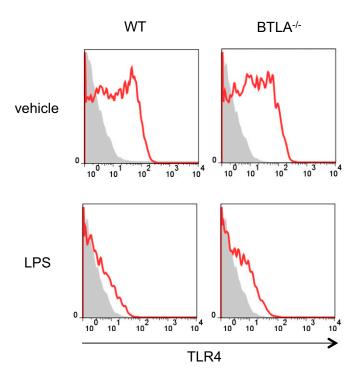


Fig. 52. The expression of Toll-like receptor 4 (TLR4) in BTLA^{-/-} DCs. BTLA^{-/-} BMDCs and WT BMDCs were stimulated in the presence or absence of LPS (100 ng/mL) for 12 h. The expression of TLR4 was analyzed by flow cytometry. Shown are representative histograms of TLR4 staining with control staining (gray histograms) of three independent experiments.

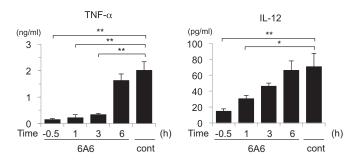


Fig. S3. The expression of BTLA is enhanced by LPS stimulation. WT BMDCs were stimulated with LPS (100 ng/mL) for 12 h. Where indicated, 6A6 was added to the culture at -0.5, +1, +3, and +6 h from the timing of LPS administration. The levels of TNF- α and IL-12 in the supernatants were measured by ELISA. Data are mean \pm SD, n = 4. *P < 0.05, **P < 0.01.