Primers and PCR condition

The primer sequences used in RT-PCR analyses were as follows: Mc-1-F: 5'-GCTCCGGAAACTCGGACATTA-3', 64°C, 12 s, 34 cycles. Mc-1-R3: 5'-AACCAACTCATCCGCTCCT-3', 64°C, 12 s, 34 cycles. 20-s, 38 cycles. MSCV-50R: 5'-TGTTGGGAATGGGAGGTTAT-3', 54°C, 12 s, 36 cycles. Paxc-F: 5'-AATCTGCCATCAAGGGTTC-3', 54°C, 12 s, 36 cycles. Paxc-R: 5'-CTGATCTCCAGGCAACT-3', 54°C, 12 s, 36 cycles. Id2-R: 5'-CATCTCCGGAAAGGATGAA-3', 58°C, 30 s, 37 cycles. RAG1-R: 5'-GGAACCCGCTGTGAATGTGAA-3', 58°C, 30 s, 37 cycles. RAG2-R: 5'-GTCGCTTCTTCTTCCAATCCAT-3', 58°C, 30 s, 37 cycles. Mcl-1-R3: 5'-CTCCAAGCTCAAGGAACT-3', 65°C, 30 s, 38 cycles. Id2-F: 5'-ATCCATGACCTGCAAGGAC-3', 60°C, 30 s, 38 cycles. Id2-R: 5'-ACTCTGAGGAAACGACAT-3', 60°C, 30 s, 38 cycles. Paxc-F: 5'-ATTACAGGCTGCTCAAGGAC-3', 60°C, 30 s, 38 cycles. Paxc-R: 5'-CTTTTTGGAGAAGACTGACAA-3', 60°C, 30 s, 38 cycles. E2A-F: 5'-TCAGGAGGAAGCAGAAACAGGAG-3', 60°C, 28 s, 28 cycles. E2A-R: 5'-ACGACCCATCCACAGAAGGTT-3', 70°C, 28 s, 28 cycles. E2A-R2: 5'-AATGTTCAAGCCCTCATAGG-3', 70°C, 28 s, 28 cycles. Paxc-R3: 5'-CGAAACGCTGTGAGTTGAAA-3', 70°C, 28 s, 28 cycles. Paxc-F2: 5'-AGCCCAATGCTCAGGCTAAT-3', 70°C, 28 s, 28 cycles.

Antibodies.

All antibodies used in this study were anti-mouse antibodies listed as follows. HTTC- or PE-conjugated (HTTC- or PE-) CD43 (Ly-49, Invivospec) (27), HTTC- or biotin-Ly-6C (AL-21), alphaprophycocyanin (APC)-C3H1 (1D0), PE-Cy7-NK1.1 (PK136), APC-Cy7-B220 (RA3-M1), and biotin-CD24 (Heat Stable Antigen) (2B8) were purchased from BD Biosciences. APC-Cy7-TER119, PE-Cy7-CD11b (Mac-1) (5B11), PE-Cy7-CD11c (EDR1), PE-Cy5-Ly-6G (Gr-1) (RB6-8C5), PE-Cy5-TER119, PE-Cy5-CD11b (Mac-1) (5B11), biotin-CD11b (AA4.1), and biotin-CD117 (c-Kit) (2B8) were purchased from ebioscience. Texas red goat anti-mouse Iga Ab (Southern Biotechnology Associates, Inc.) was used for surface IgM staining. CD127 (IL-7Rα) (A7R34; provided by T.-I. Nishikawa, RIKEN Center for Developmental Biology, Kobe, Japan) was purified from hybridoma culture supernatants and conjugated with biotin by a standard procedure in our laboratory. Avidin–Texas red (Jackson ImmunoResearch Laboratories, West Grove, PA) was used to detect introduced exons in IL-7Rα (11). STAT5-1975F: 5'-GGAGGTTCAAGCCCTCATAGG-3', 70°C, 30 s, 30 cycles. MSCI-50R: 5'-AACAATAAGCACCAGCACCGGC-3'. To detect introduced STAT5, a PK136 (15) mRNA, vector primer of MSCV-IRES-GFP was used for reverse primer. Primer sequences and PCR conditions for Bcl-2, Bcl-xL, EBF-F: 5'-GAACTCCTCCAGTCTCTGA-3', EBF-R: 5'-CAACTCCTCCAGACACCGCA-3', GAPDH-F: 5'-CTCCGAGAAACTCGCAGGTAAT-3', GAPDH-R: 5'-AGAGTGGAAGTTCGTTGGAAGTGC-3'. The primers for real-time PCR were listed as follows: STAT5 (1

REFERENCES