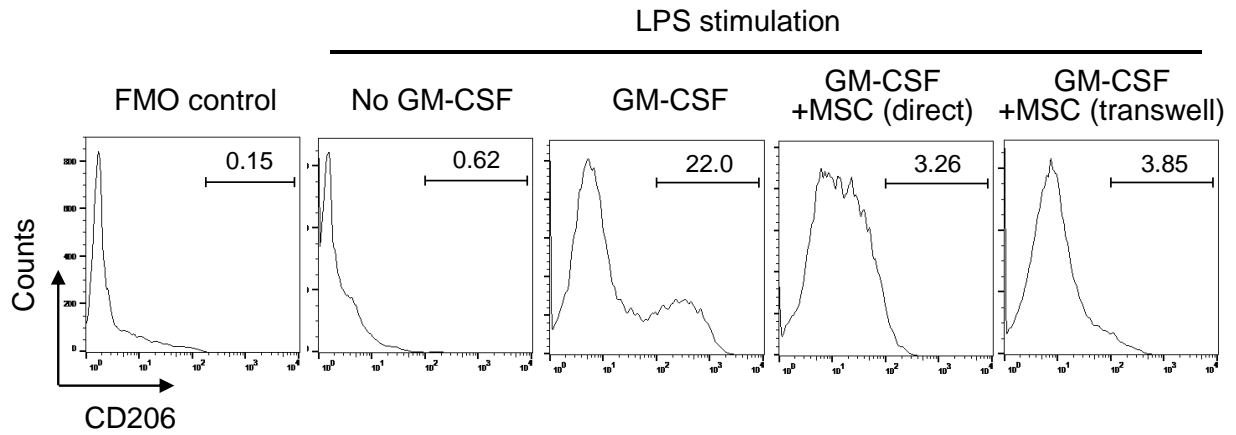


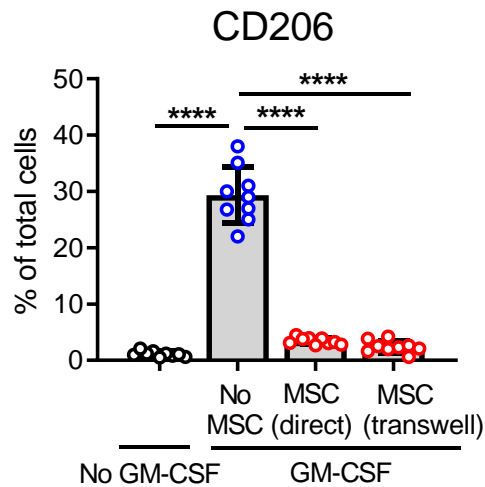
1 Supplemental figures and legends

2 **Figure S1.** Flow cytometric analysis for CD206 in BM cells. After 5 d culture with or without
3 MSCs (in direct or transwell coculture system) and in the presence or absence of GM-CSF (40
4 ng/ml), BM cells were stimulated with LPS (100 ng/ml) for 18 h and analyzed. Representative
5 flow cytometry histograms and quantitative results for CD206 were shown. The Fluorescence
6 Minus One Control (FMO control) was used.

7 Data are displayed as mean \pm SD and representative of 3 independent sets of experiments (n =
8 3 to 4 biological replicates in each group per set). A dot depicts data from one biological sample.
9 **** $P < 0.0001$ by one-way ANOVA and Tukey's multiple-comparison test.



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12 **Figure S2.** Heat maps of the cell differentiation-related genes from RNA sequencing on
 13 CD11b^{hi}Ly6C^{hi}Ly6G^{lo}, CD11b^{mid}Ly6C^{mid}Ly6G^{lo}, and CD11b^{lo}Ly6C^{lo}Ly6G^{lo} cells that were sorted
 14 as in Figure 5A. The first column (blue box) presents changes in the gene expression levels in
 15 CD11b^{hi}Ly6C^{hi}Ly6G^{lo} cells relative to CD11b^{lo}Ly6C^{lo}Ly6G^{lo} cells, and the second column (red
 16 box) depicts the gene expression changes in CD11b^{mid}Ly6C^{mid}Ly6G^{lo} cells relative to
 17 CD11b^{lo}Ly6C^{lo}Ly6G^{lo} cells. See ArrayExpress accession E-MTAB-8975.

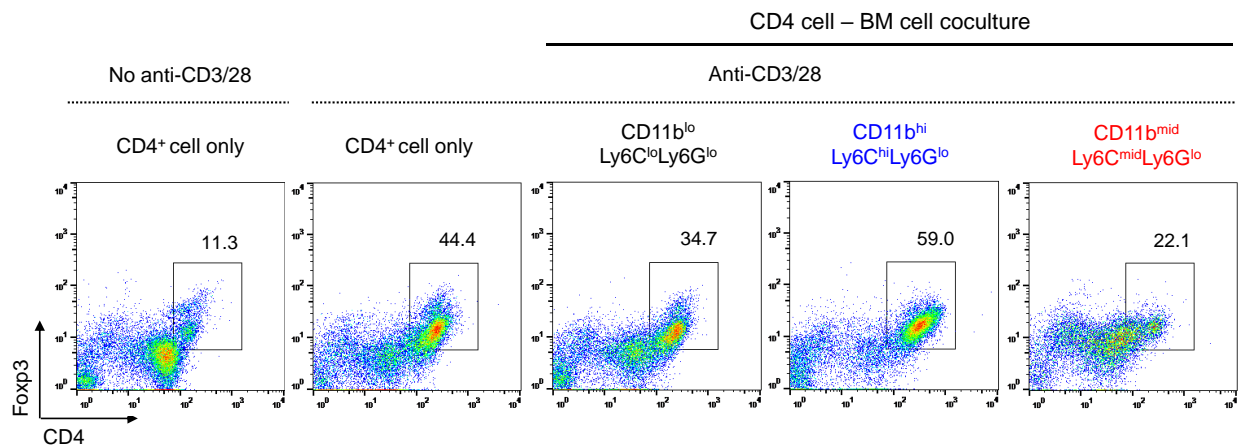


19 **Figure S3. MSC-induced CD11b^{mid}Ly6C^{mid}Ly6G^{lo} cells do not increase CD4⁺Foxp3⁺ Treg.**

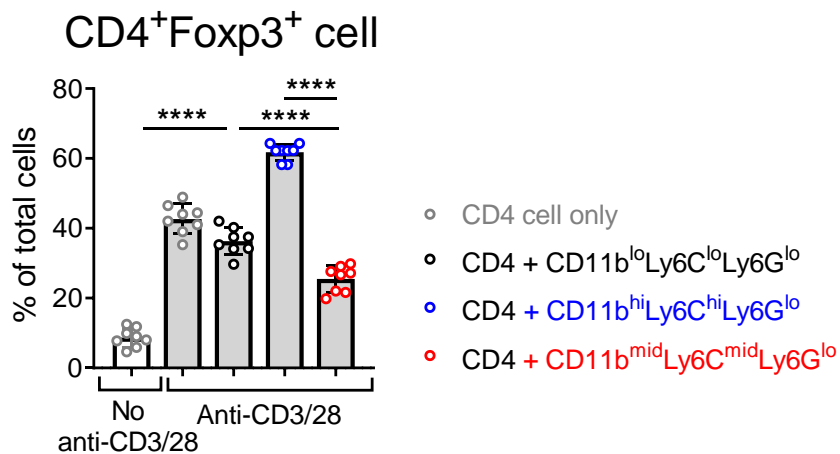
20 CD11b^{lo}Ly6C^{lo}Ly6G^{lo} cells, CD11b^{mid}Ly6C^{mid}Ly6G^{lo} cells, and CD11b^{hi}Ly6C^{hi}Ly6G^{lo} cells were
 21 sorted as in Figure 5A and stimulated with LPS (100 ng/ml) for 18 h. CD4⁺ cells were isolated
 22 from the spleen of C57BL/6 mice. The sorted CD11b^{lo}Ly6C^{lo}Ly6G^{lo} cells,
 23 CD11b^{mid}Ly6C^{mid}Ly6G^{lo} cells, and CD11b^{hi}Ly6C^{hi}Ly6G^{lo} cells were cocultured in a direct
 24 coculture system with CFSE-prelabeled CD4⁺ cells on anti-CD3 and anti-CD28 Ab-coated
 25 plates for 5 d. The frequency of CD4⁺Foxp3⁺Treg was determined by flow cytometry.
 26 Representative cytograms and quantitative results are presented.

27 Data (mean ± SD) represent 3 independent sets of experiments (n = 2 to 3 in each group per
 28 set), and a dot depicts data from one biological sample. ****P < 0.0001 by one-way ANOVA and
 29 Tukey's multiple-comparison test.

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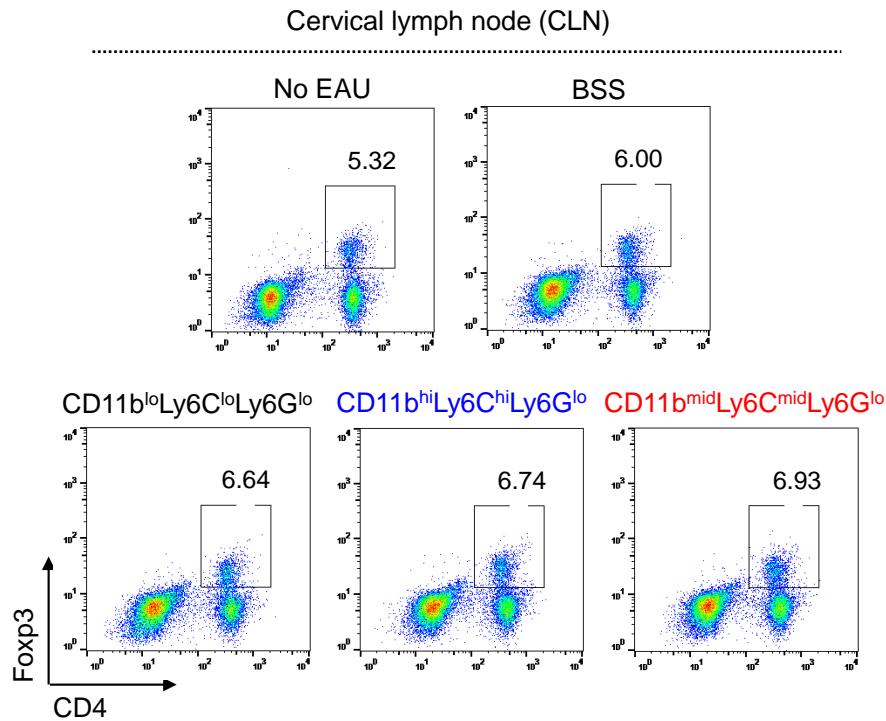


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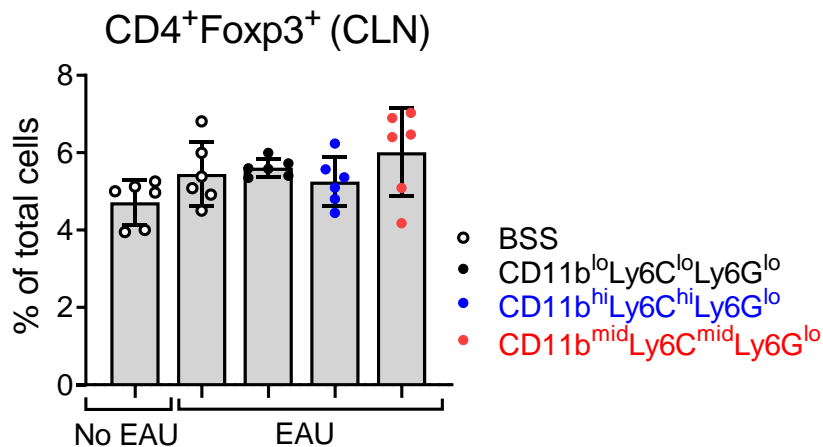


32

33 **Figure S4.** Flow cytometric analysis for CD4⁺Foxp3⁺ Treg in draining cervical lymph nodes
 34 (CLN) in EAU mice at day 21 after treatment with vehicle (Hank's balanced salt solution, BSS),
 35 CD11b^{lo}Ly6C^{lo}Ly6G^{lo} cells, CD11b^{mid}Ly6C^{mid}Ly6G^{lo} cells, or CD11b^{hi}Ly6C^{hi}Ly6G^{lo} cells. The cells
 36 were prepared as in Figure 5A, stimulated with LPS (100 ng/ml) for 18 h, and injected
 37 intravenously into mice right after EAU induction at day 0. Shown are the frequencies of
 38 CD4⁺Foxp3⁺ cells out of total CLN cells. A dot indicates data from an individual animal, and data
 39 are presented as mean ± SD.



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