SUPPLEMENTAL MATERIAL

Kanaya et al., https://doi.org/10.1084/jem.20160659

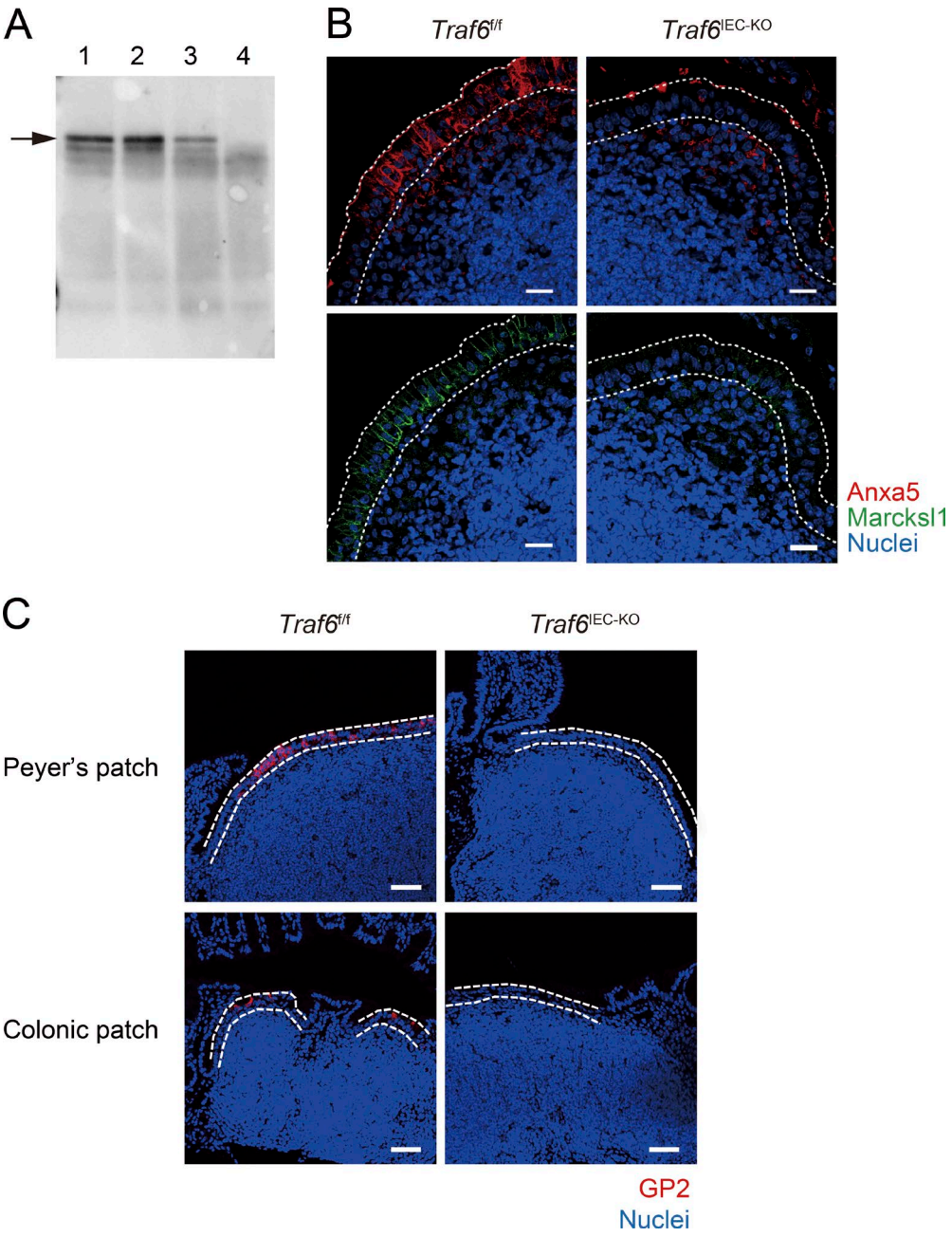

Figure S1. **M cells are absent in the GALT of *Traf6*$^{IEC-KO}$ mice. (A)** Western blot of TRAF6 protein. Lanes 1 and 2 are samples of splenocytes and IECs from a *Traf6*$^{f/f}$ mouse, respectively; lanes 3 and 4 are from a *Traf6*$^{IEC-KO}$ mouse. The arrow indicates TRAF6 protein. Data are representative of three independent experiments. **(B)** PPs of *Traf6*$^{f/f}$ and *Traf6*$^{IEC-KO}$ mice were immunostained with anti–Anxa5 and anti–Marcksl1 antibodies. Nuclei were counterstained with DAPI (blue). Dotted lines indicate FAE. Bars, 20 µm. **(C)** PPs and colonic patches immunostained with anti-GP2 antibody. Nuclei were counterstained with DAPI (blue). Bars, 40 µm. Data are representative of two independent experiments.

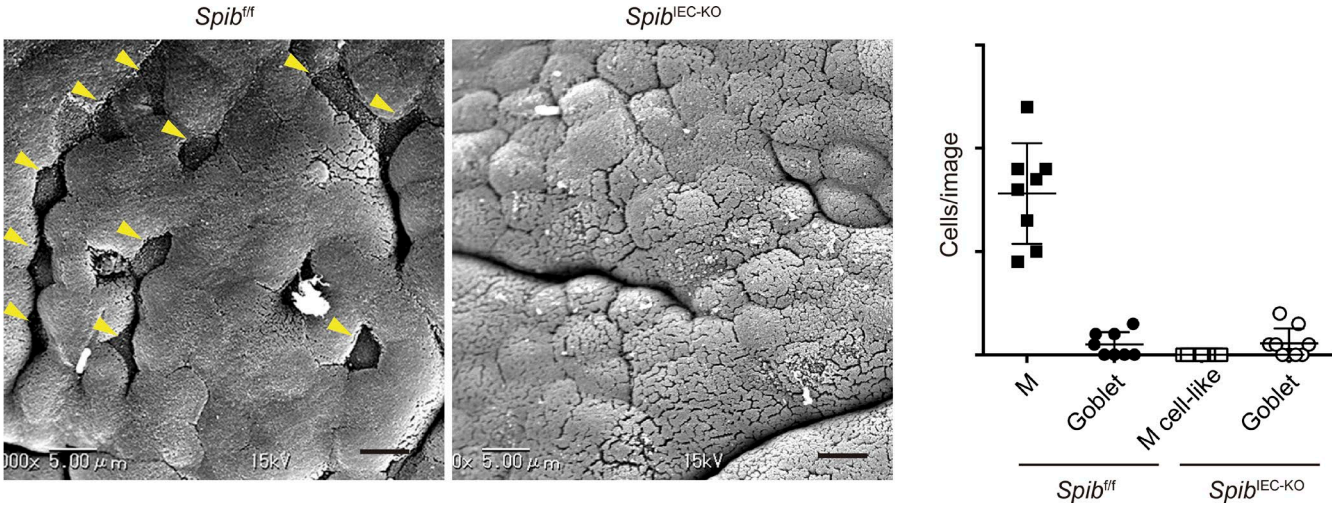

Figure S2. **Goblet cells are not increased in FAE of *Spib*$^{IEC-KO}$ mice. (A)** PP FAE of *Spib*$^{IEC-KO}$ mice was examined by scanning electron microscopy. Arrowheads indicate M cells. Bars, 5 µm. **(B)** The number of M cells, M cell–like cells, and goblet cells was quantified.

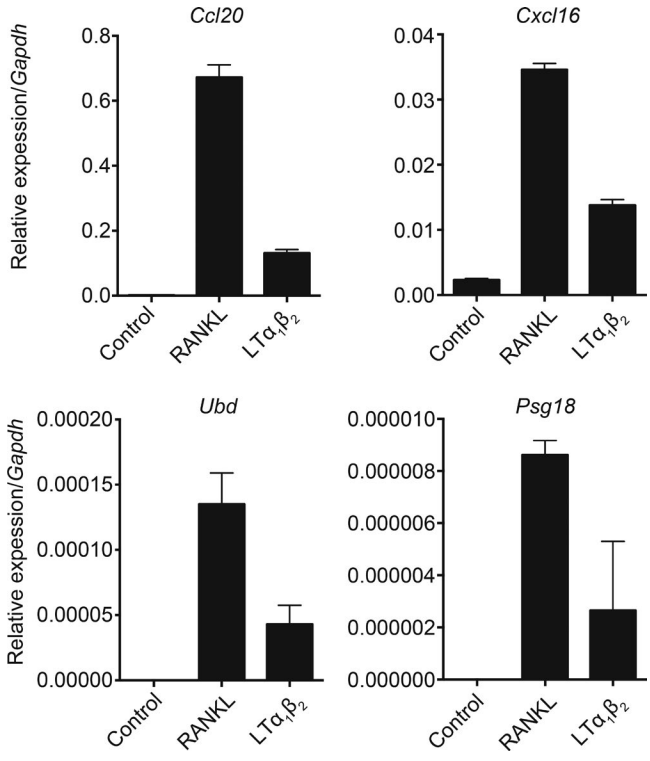

Figure S3. **RANKL prominently up-regulated the expression of FAE-associated genes in organoids.** Organoids from BALB/c mice were stimulated with RANKL or $LT\alpha_1\beta_2$ for 3 d, and the expression of FAE-associated genes was analyzed by quantitative PCR (normalized with *Gapdh*, mean ± SEM, $n = 3$).

Table S1. **Primer sequences used for quantitative PCR analysis**

Primer name	Sequence (5′ to 3′)
Mouse *Gapdh* qPCR Fw	TGTGTCCGTCGTGGATCTGA
Mouse *Gapdh* qPCR Rv	TTGCTGTTGAAGTCGCAGGAG
Mouse *Gp2* qPCR Fw	GATACTGCACAGACCCCTCCA
Mouse *Gp2* qPCR Rv	GCAGTTCCGGTCATTGAGGTA
Mouse *Spib* qPCR Fw	AGCGCATGACGTATCAGAAGC
Mouse *Spib* qPCR Rv	GGAATCCTATACACGGCACAGG
Mouse *Ccl20* qPCR Fw	AAAAGGGCTGTGAACCTCCT
Mouse *Ccl20* qPCR Rv	ACCCCAGCTGTGATCATTTC
Mouse *Cxcl16* qPCR Fw	GTGGGTCCGTGAACTAGTGG
Mouse *Cxcl16* qPCR Rv	ACTGGCTTGAGGCAAATGTT
Mouse *Psg18* qPCR Fw	AGCAACGAAGTCCATCATCAGAG
Mouse *Psg18* qPCR Rv	AAGAGCCAACGGATGGAGATC
Mouse *Muc3* qPCR Fw	TTCTATGGGCCACGGTGT
Mouse *Muc3* qPCR Rv	TGGTTACTGTCACACTCACTTCC
Mouse *Ccl9* qPCR Fw	TACTGCCCTCTCCTTC
Mouse *Ccl9* qPCR Rv	TTGAAAGCCCATGTGA
Mouse *Tnfaip2* qPCR Fw	GTGCAGAACCTCTACCCCAATG
Mouse *Tnfaip2* qPCR Rv	TGGAGAATGTCGATGGCCA
Mouse *Marcksl1* qPCR Fw	GGTGATTCCTCAGCCTCCTC
Mouse *Marcksl1* qPCR Rv	CTCCTCTTCTGTGTCTCCTTCCTT
Mouse *Anxa5* qPCR Fw	TCGCCACCTCCCTGTATTCT
Mouse *Anxa5* qPCR Rv	GCGGGACACTGCTTTCATC
Mouse *Nfkb2* qPCR Fw	ATTGTACGGCTGCGCTTCTC
Mouse *Nfkb2* qPCR Rv	ACCCGCTGTCTTGTCCATTC
Mouse *Relb* qPCR Fw	CGAGAGCAAACGAAGGAAAA
Mouse *Relb* qPCR Rv	TGGAAGCAGGGAAGAAATCA
Mouse *Muc2* qPCR Fw	CAACAAGCTTCACCACAATCTCT
Mouse *Muc2* qPCR Rv	CAGACCAAAAGCAGCAAGGT
Mouse *Ubd* qPCR Fw	AAAATCCTCAAGCCCCATCG
Mouse *Ubd* qPCR Rv	GCCATGATCTTTCCATCTTCCA
Mouse *Cxcl10* qPCR Fw	AAGTGCTGCCGTCATTTTCT
Mouse *Cxcl10* qPCR Rv	CCTATGGCCCTCATTCTCAC
Mouse *Nfkbia* qPCR Fw	ACACCCCAGCATCTCCACTC
Mouse *Nfkbia* qPCR Rv	ATCAGCACCCAAAGTCACCA
Human *GP2* qPCR Fw	GAGAGAAATCAAACCCATGCCA
Human *GP2* qPCR Rv	ACTGCATCCCCTTCGTAAGGAT
Human *SPIB* qPCR Fw	GAGGAAGACTTACCGTTGGACAG
Human *SPIB* qPCR Rv	TCAGTAGCCCCAGCAGGAA

Fw, forward; qPCR, quantitative PCR; Rv, reverse.