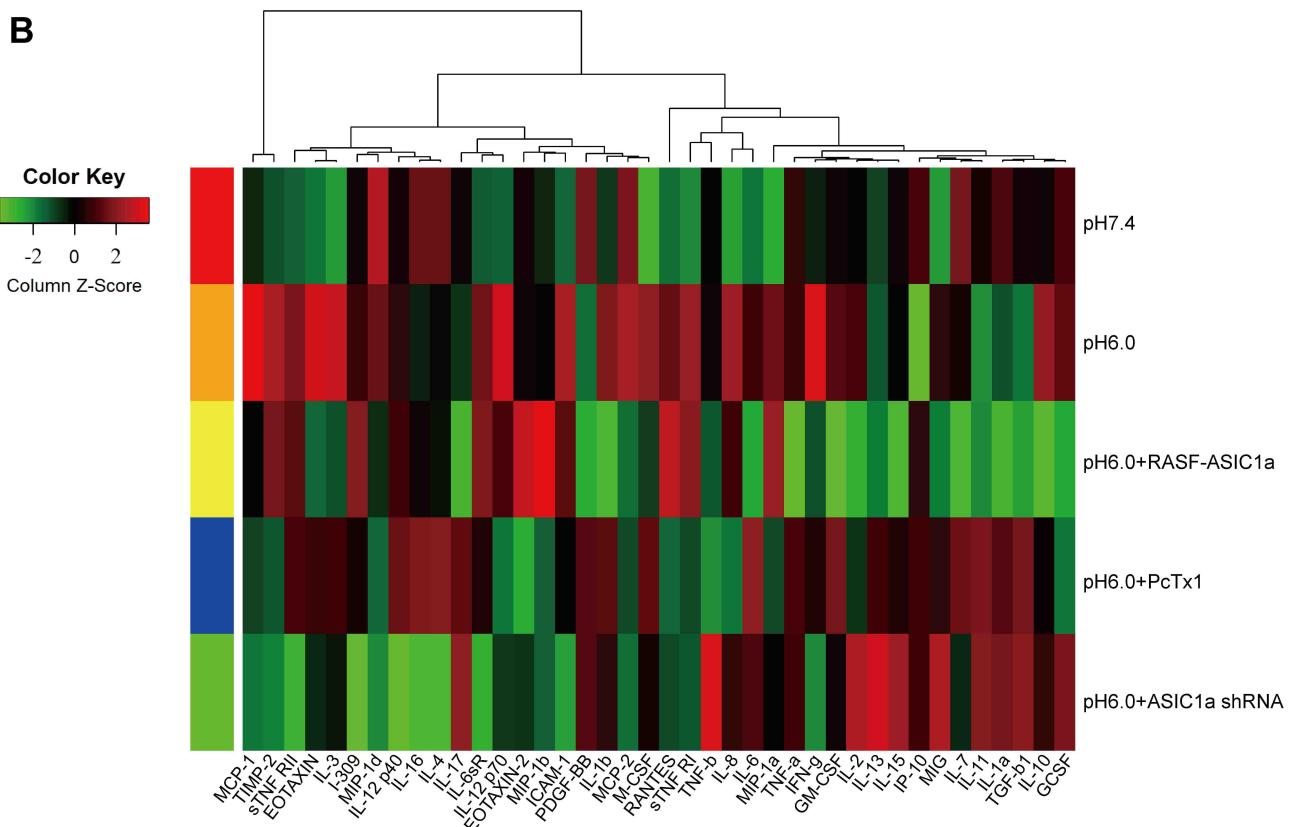
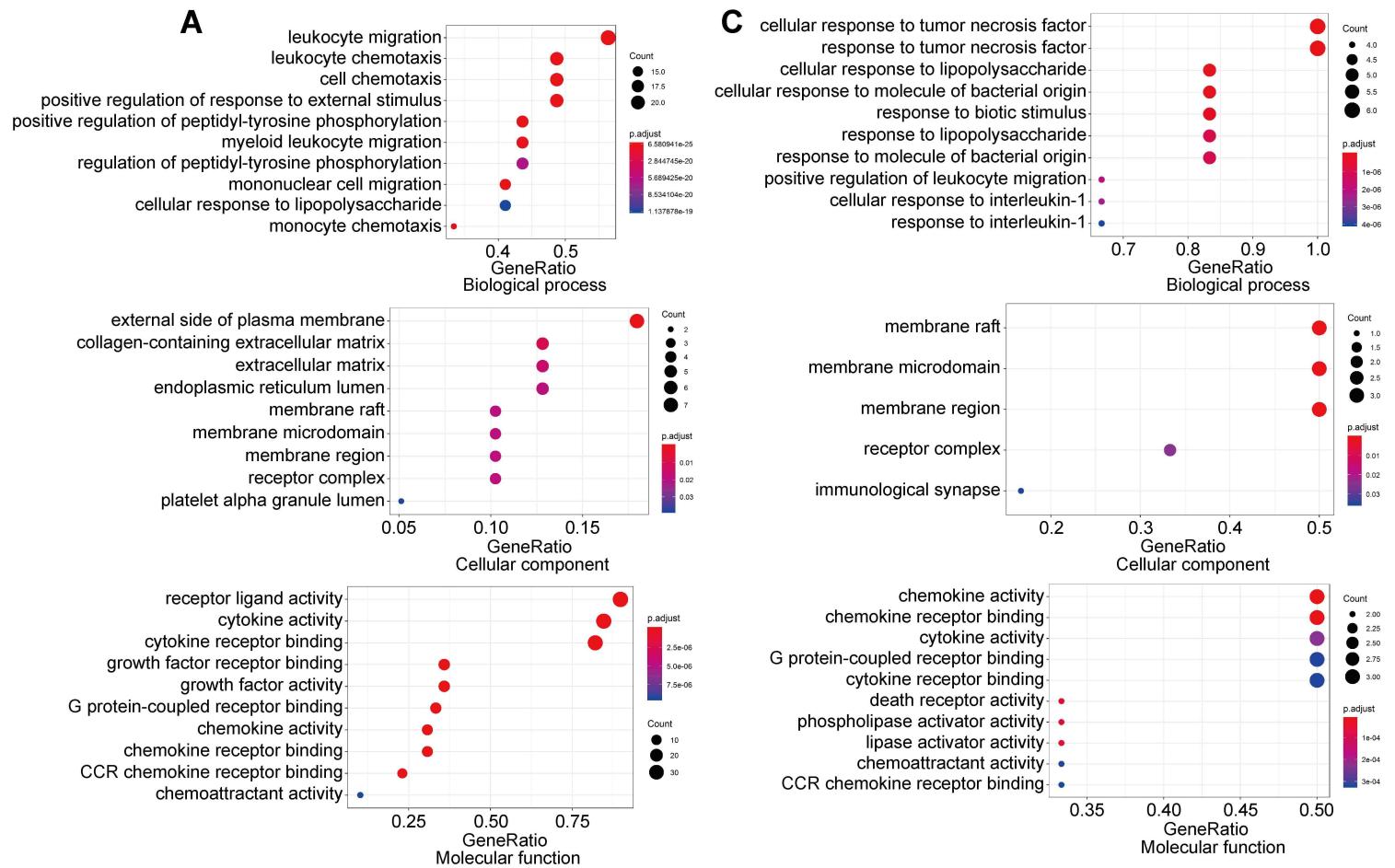


Figure S1. ASIC1a has an ion channel activity that mediates Ca^{2+} influx. (A) Membrane ASIC1a expression was detected in RASF-ASIC1a transfectants and ASIC1a shRNA transfectants by flow cytometry. (B) The effect of ASIC1a on $[\text{Ca}^{2+}]_{\text{i}}$ was detected in RASF with acidic solution (pH 6.0) by flow cytometry . (C) Flow cytometry detected that the increase of $[\text{Ca}^{2+}]_{\text{i}}$ was mediated by ASIC1a in RASF rather than by intracellular Ca^{2+} stores release or other calcium channels. 100 nM PtTx-1, 1 mM EGTA, 10 μM BAPTA-AM, 5 μM verapamil and HMA were used in the experiment. Student's t-test or one-way ANOVA was used for statistical analysis and data are expressed as mean \pm SEM for three separate experiments.



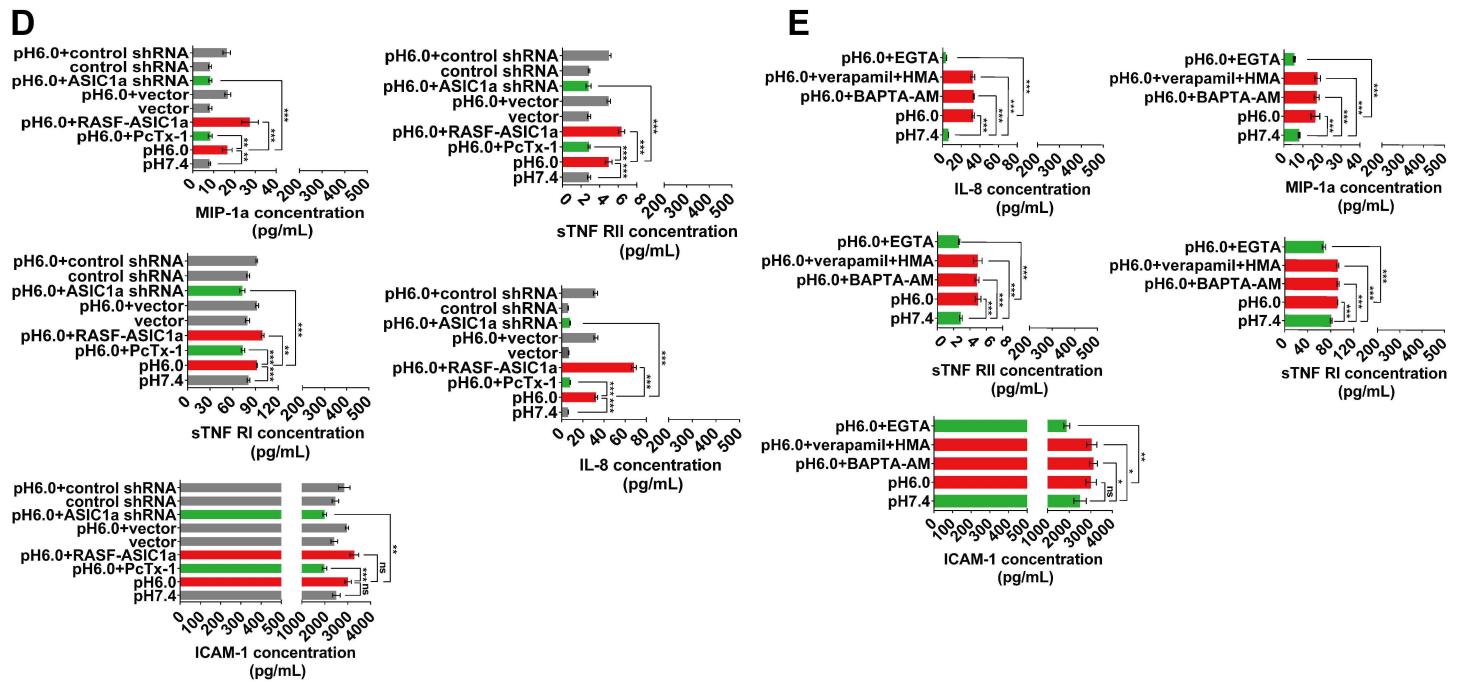
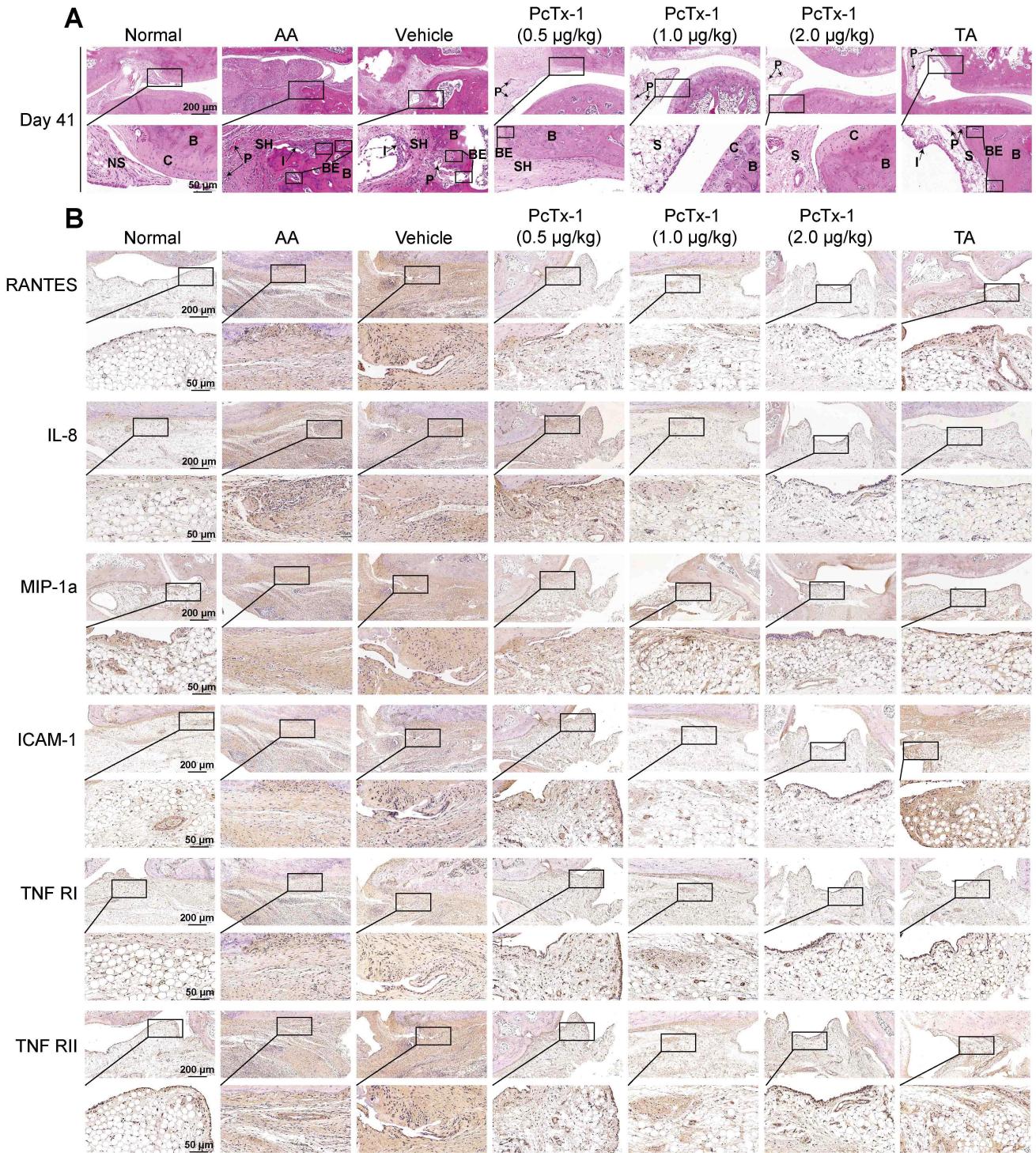


Figure S2. ASIC1a upregulates the expression of inflammatory cytokines by mediating Ca^{2+} influx. (A) Molecular function, biological process and cellular component of 40 inflammatory cytokines were analyzed by Gene Ontology (GO) enrichment analysis. (B) The expression of 40 inflammatory cytokines were semi-quantitative analysis by fluorescence intensity and were presented by heat map. (C) Molecular function, biological process and cellular component of RANTES, sTNF RI, MIP-1a, IL-8, sTNF RII and ICAM-1 were analyzed by GO enrichment analysis. Student's t-test or one-way ANOVA was used for statistical analysis and data are expressed as mean \pm SEM for three separate experiments. (D) The expressions of sTNF RI, IL-8, sTNF RII, and ICAM-1 were determined by magnetic multi-cytokine assay, and the expression of MIP-1a was determined by ELISA. Cells were treated for 6 h with 100 nM PcTx-1. (E) Magnetic multi-cytokine assay or ELISA detected the increase of sTNF RI, IL-8, sTNF RII, ICAM-1, and MIP-1a expressions mediated by ASIC1a in RASF treated for 6 h with 1 mM EGTA, 10 μM BAPTA-AM, 5 μM verapamil and HMA. Student's t-test or one-way ANOVA was used for statistical analysis, and data are expressed as mean \pm SEM for three separate experiments.



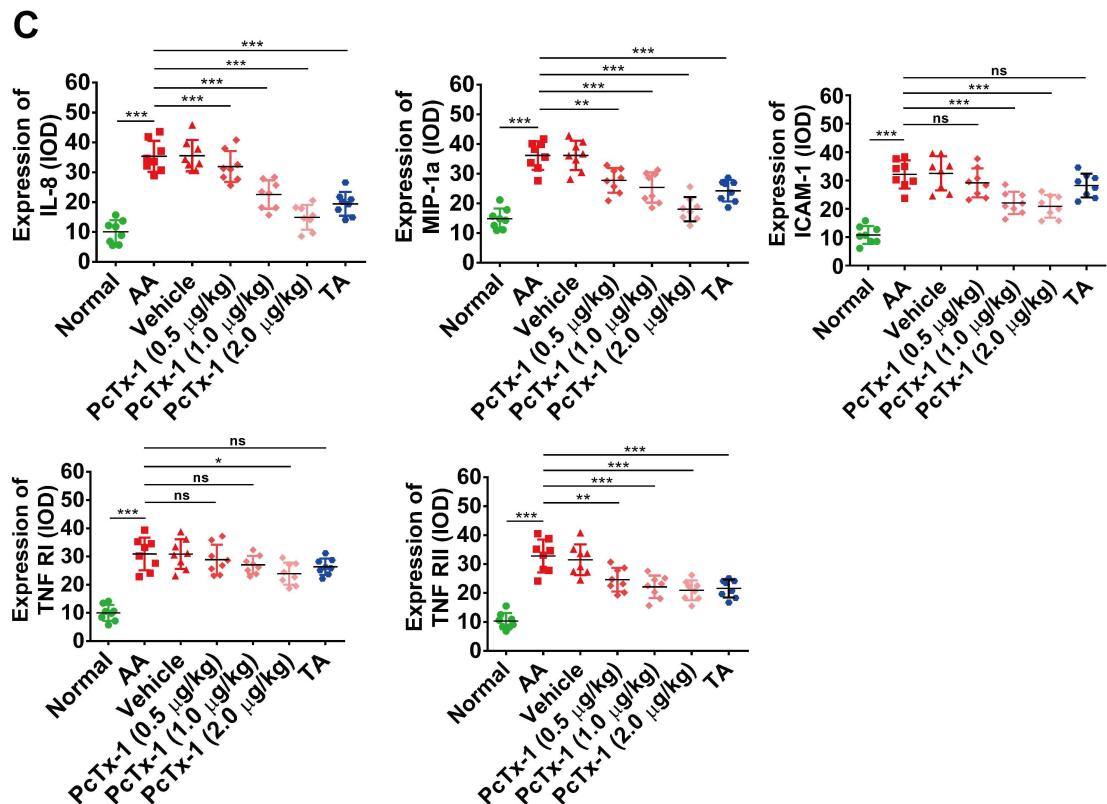
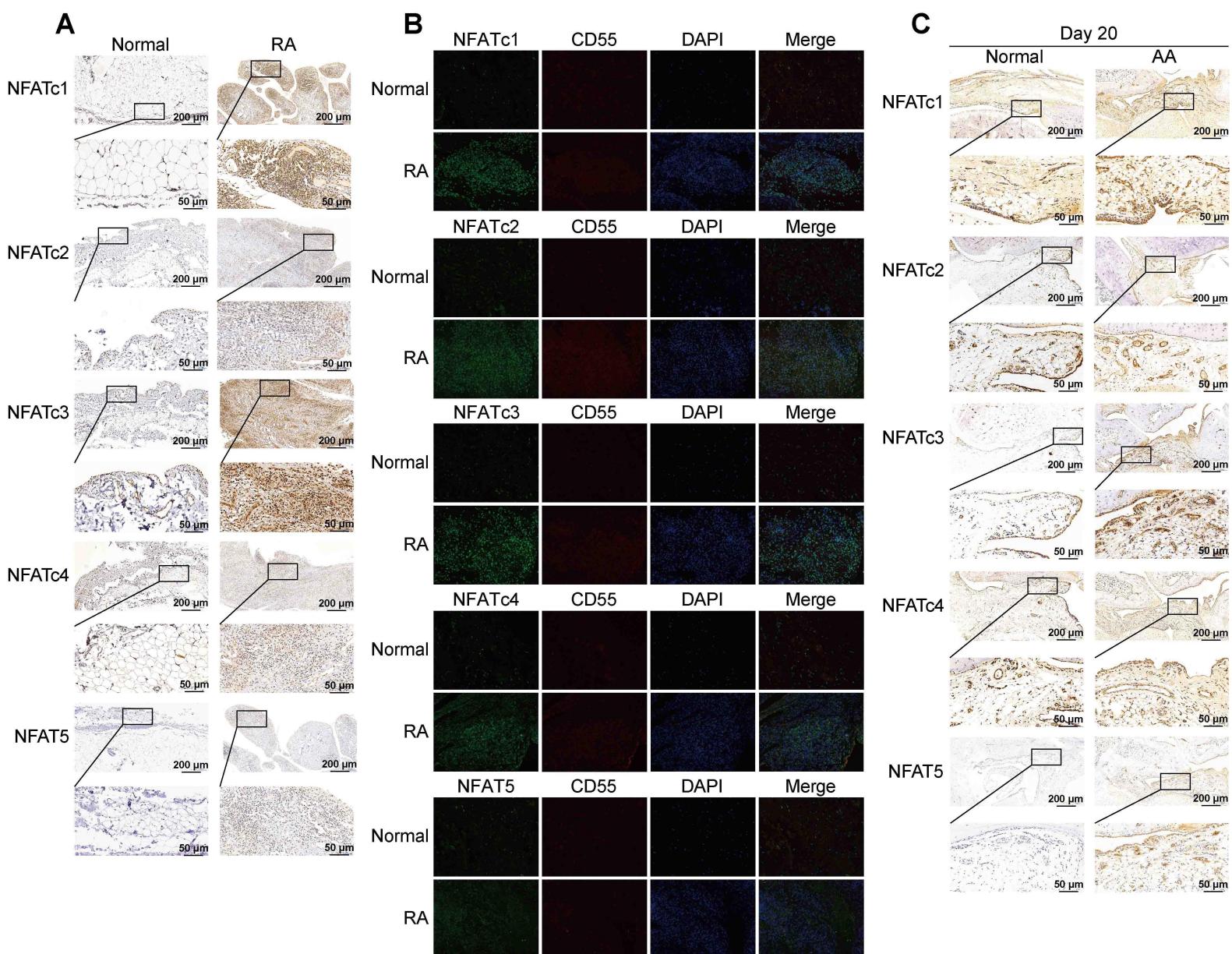
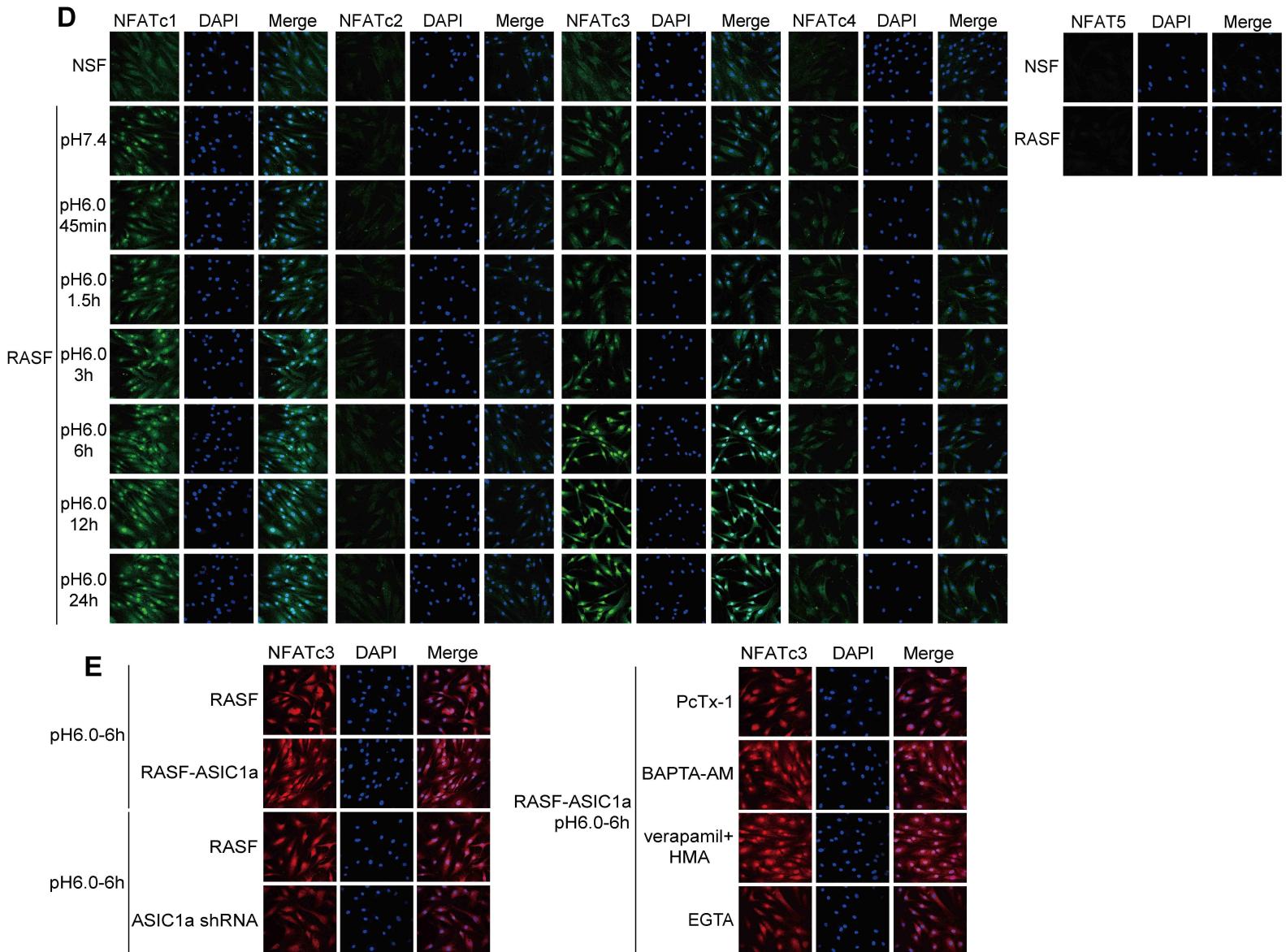


Figure S3. ASIC1a promotes inflammation by mediating the expression of inflammatory cytokines in vivo.
(A) Experimental rat right hind ankle joint sections stained with hematoxylin and eosin. Histological section showing subchondral bone (B), bone erosion (BE), articular cartilage (C), inflammatory cell infiltration (I), synovium (S), normal synovium (NS), pannus formation (P), synovial hyperplasia (SH). **(B)** Immunohistochemistry analysis of RANTES, TNF RI, MIP-1a, IL-8, TNF RII and ICAM-1 expression in rat ankle synovium ($n = 8$). **(C)** Semi-quantitative analysis of TNF RI, MIP-1a, IL-8, TNF RII, and ICAM-1 expression in rat ankle synovium by integral optical density (IOD). Student's t-test or one-way ANOVA was used for statistical analysis, and data are expressed as mean \pm SEM for three separate experiments.





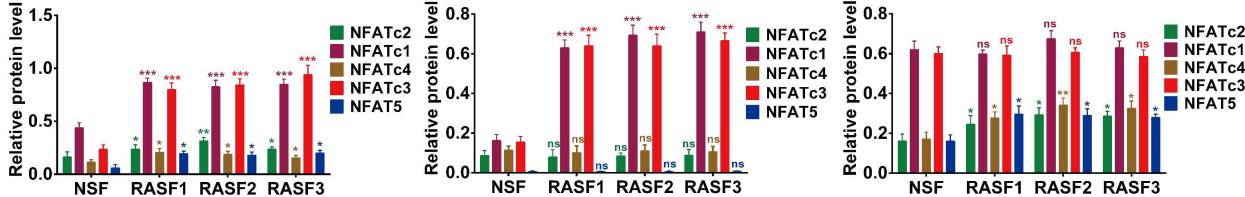
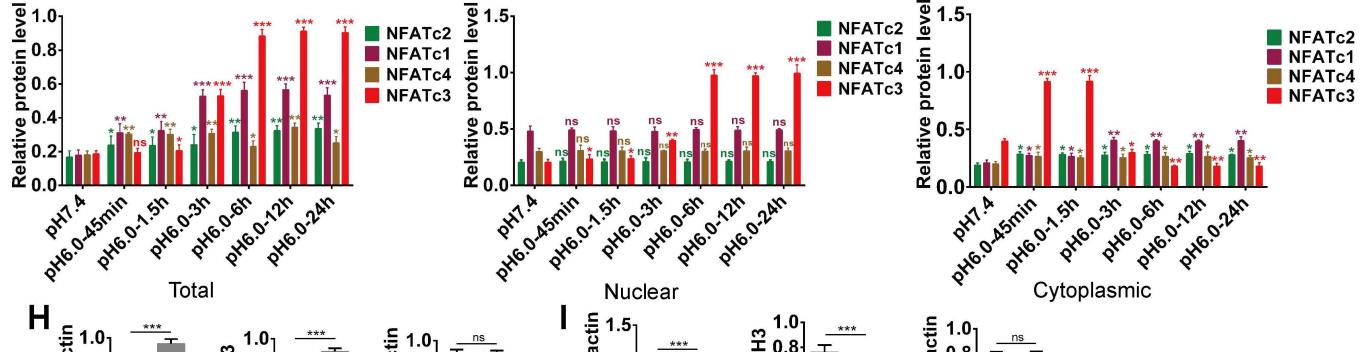
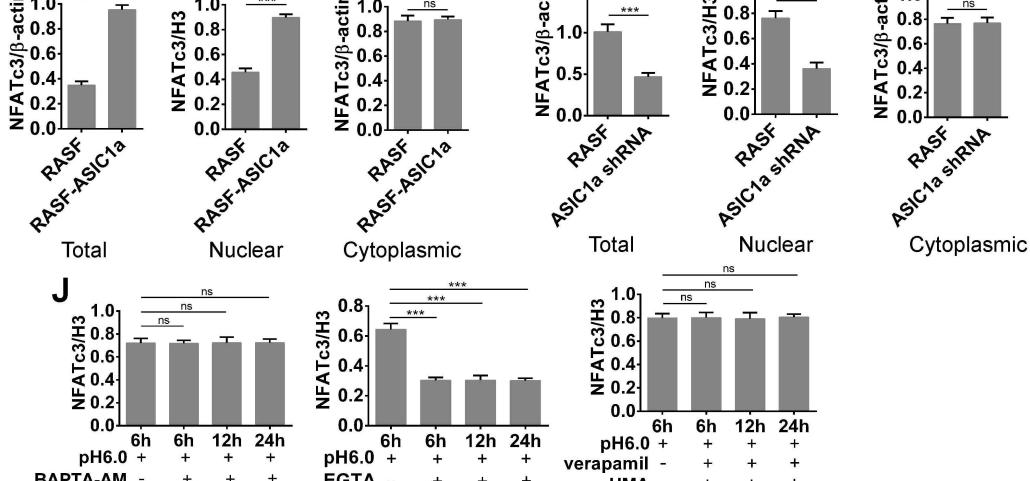
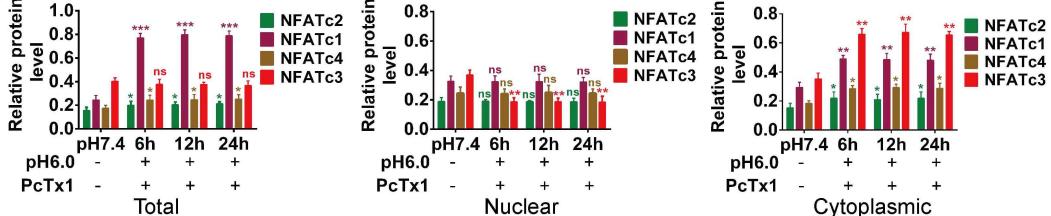
F**G****H****K**

Figure S4. ASIC1a induces the nuclear translocation of NFATc3 by mediating Ca^{2+} influx. (A) Immunohistochemistry analysis of NFATc1-4, NFAT5 expressions in human normal and RA synovial tissues. (B) Immunofluorescence analysis of NFATc1-4, NFAT5 expressions in human normal and RA synovial tissues. The scale bars are 100 μm . (C) Immunohistochemistry analysis of NFATc1-4, NFAT5 expressions in rat ankle synovium on day 20 ($n = 8$). (D) Immunofluorescence analysis of NFATc1-4, NFAT5 expressions in NSF and RASF. The scale bars are 20 μm . (E) Immunofluorescence analysis of NFATc3 expression in RASF-ASIC1a transfectants and ASIC1a shRNA transfectants. The scale bars are 20 μm . (F) Semi-quantitative analysis of total, nuclear and cytoplasmic NFATc1-4 bands from Western blotting by gray value in NSF and RASF. (G) Semi-quantitative analysis of total, nuclear and cytoplasmic NFATc1-4 bands from Western blotting by gray value. RASF treated with pH 6.0 for 45 min, 1.5 h, 3 h, 6 h, 12 h, 24 h. (H) Semi-quantitative analysis of total, nuclear and cytoplasmic NFATc3 bands from Western blotting by gray value. RASF and RASF-ASIC1a transfectants treated with pH 6.0 for 6 h. (I) Semi-quantitative analysis of total, nuclear and cytoplasmic NFATc3 bands from Western blotting by gray value. RASF and ASIC1a shRNA transfectants treated with pH 6.0 for 6 h. (J) Semi-quantitative analysis of nuclear NFATc3 bands from Western blotting by gray value. RASF treated with 1 mM EGTA, 10 μM BAPTA-AM, 5 μM verapamil and HMA. (K) Semi-quantitative analysis of total, nuclear and cytoplasmic NFATc3 bands from Western blotting by gray value. RASF treated with 100 nM PCTx-1.

Table S1. Primers for gene overexpression and shRNAs for gene silencing.

| Gene | Primer Sequences | |
|--------|------------------|---|
| ASIC1a | Forward | 5'-GAGGATCCCCGGGTACCGGTCGCCACCATGGAAGTGAAGGCCGAGGAGGAG-3' |
| | Reverse | 5'-TCCTTGAGTCATACCGCAGGTAAAGTCCTCGAACGTG-3' |
| Gene | shRNA | |
| ASIC1a | shRNA1 | CCGGCTATGGAAAGTGCTACACGTTCTCGAGAACGTGAGCACTTCCATAGTTTT |
| ASIC1a | shRNA2 | CCGGCGAGGTCATTAAGCACAAGCTCTCGAGAGCTGTGCTTAATGACCTCGTTTT |
| ASIC1a | shRNA3 | CCGGGCTGTAGGCTACATCCTGATACTCGAGTATCAGGATGTAGCCTACAGCTTTTT |
| NFATc3 | shRNA1 | CCGGCGTCTCAGTTACAACCTATTACTCGAGTAATAGGTTGTAAGTGCAGACGTTTT |
| NFATc3 | shRNA2 | CCGGGCCCAAGTATTCAAATTACATCTCGAGATGTAATTGAATACTTGGCTTTTT |
| NFATc3 | shRNA3 | CCGGGCCAGATGATTGTGCATCCATCTCGAGATGGATGCACAATCATCTGGCTTTTT |

shRNA: short hairpin RNA; ASIC1a: acid sensing ion channel 1a; NFATc3: Nuclear factor of activated T-cells, cytoplasmic 3.

Table S2. Distribution of fluorescence arrays of 40 inflammatory cytokines.

| POS 1 | POS 2 | POS 3 | NEG | NEG | EOTAXIN-1 | EOTAXIN-2 | GCSF | GM-CSF | ICAM-1 | IFN-g | I-309 | IL-1a |
|-------|-------|---------|----------|---------|-----------|-----------|------|--------|--------|-----------|-----------|--------|
| POS 1 | POS 2 | POS 3 | NEG | NEG | EOTAXIN-1 | EOTAXIN-2 | GCSF | GM-CSF | ICAM-1 | IFN-g | I-309 | IL-1a |
| IL-1b | IL-2 | IL-3 | IL-4 | IL-6 | IL-6sR | IL-7 | IL-8 | IL-10 | IL-11 | IL-12 p40 | IL-12 p70 | IL-13 |
| IL-1b | IL-2 | IL-3 | IL-4 | IL-6 | IL-6sR | IL-7 | IL-8 | IL-10 | IL-11 | IL-12 p40 | IL-12 p70 | IL-13 |
| IL-15 | IL-16 | IL-17 | IP-10 | MCP-1 | MCP-2 | M-CSF | MIG | MIP-1a | MIP-1b | MIP-1d | RANTES | TGF-b1 |
| IL-15 | IL-16 | IL-17 | IP-10 | MCP-1 | MCP-2 | M-CSF | MIG | MIP-1a | MIP-1b | MIP-1d | RANTES | TGF-b1 |
| TNF-a | TNF-b | sTNF RI | sTNF RII | PDGF-BB | TIMP-2 | NEG | NEG | NEG | NEG | NEG | NEG | NEG |
| TNF-a | TNF-b | sTNF RI | sTNF RII | PDGF-BB | TIMP-2 | NEG | NEG | NEG | NEG | NEG | NEG | NEG |

POS: positive control; NEG: negative control; CCL:Chemokine (C-C motif) ligand; GCSF: granulocyte colony-stimulating factor; GM-CSF: granulocyte macrophage colony stimulating factor; ICAM-1: intercellular cell adhesion molecule-1; IFN-g: interferon gamma; IL: interleukin; CXCL: chemokine (C-X-C motif) ligand; MCP: monocyte chemoattractant protein; MIP: macrophage inflammatory protein; RANTES: regulated upon activation, normal T cell expressed and secreted; TGF: transforming growth factor; TNF: tumor necrosis factor; sTNF R: soluble tumor necrosis factor receptor; PDGF-BB: platelet-derived growth factor; TIMP-2: tissue inhibitor of metalloproteinases 2; MIG: monokine induced by gamma interferon; IP-10: interferon gamma-induced protein 10; IL-6 R: interleukin-6 receptor.

Table S3. Primers for ChIP-qPCR assay and RANTES promoter sequence for dual-luciferase reporter assay.

| RANTES genomic sequence (3500 bp promoter+144 bp exon1+500 bp intron1) |
|---|
| AACAAATACGAATACATATTGACTGGGGTTAGTTAGCTGTGAAAAGCATAAATTACAGAATATC CTTAAAGGCAGTCACATCTTACTCTTAATGATAACATGATAATAATAGGCAATGTTAAAGTACTTAACA TGCCTCAGACGTTGCACTAAGAGCTTGCAAGCATGAGAACATTATAGGGACTTAATTGTCTCGATA GTTGTGAGGAACATTATTATTACTGATTAGGTAA <u>GGAAA</u> CTGAGACCAGAGAGATTA TTAATAATTACCTGAGGCCACCTGGACAATAAACAGGAGAACTGCCAGTCCTGCTCTAACCC ACCGCCT <u>TTTC</u> CAGAACCTCACATGTTTGTAACCTACCTAGACCTAACGGGCTTGAA <u>GG</u> <u>AAA</u> CAATTGGTAGAACATTGTGTTGGATGAATGTTCTAAAGTCTGCAATTGTTCTTA AAT <u>GAGATGCCATACTTTCAA</u> AATTACG <u>TTTC</u> ATTGTTATTGAGCTGTAAGGAGGGTATGA GAGGATTGTTGAAAGAGCTTGGAACAAAGGCCAGGCGCAGTGGCTCGCATCTGAATCCAGCACT TTGGGAGGCCAGGTGGCGGATGCCAGGTCAGGAGTTGAGACCAGCCTGGCCAACATGG CGAAATCCTGTCTACTAAAAATACAAAAATTAGCCAGGCATGGTGGCGGACGCTTGTAAATCCCAG CTACTCAGGAGGCAGAAGAATTGCTGAACCTGGGAGGTGGAGGGTACAGTGAGCCAGATCGT CCACTGCACCTCACGCTGATCAAAAAGTACACTCTGTCTCAAAAAAAAAAAAAAGCTT GGAATGGCACCTGTAACCTAGAAAGGTCTTTTTTTTTTTTTTTTTGAGACGGAGTCTTGCTC TTTCGCCAGGCTGGAGTGCAGTGGCGCATCTCAGCTACTGCAAGCTCCGCCTGGTCA CGCCATTCTCCTGCCTCAACCTCTCAGTAGCTGGACTACAGGCCGCCACCACGCCGGCT AATTTTTCTATTTAGTAGAGACGGGTTTACCGTGTAGCTAGGATGGTCTCGATCTCTGACC TCGTGATCCGCCCTCGGCCTCTAAAGTCTGGGATTACAGGTGTGAGCCACCGCCCTGG CGAAAGGTCTTGATAACTGTTAAGTACTGACTGATGTGATTCACTGGACAGAGCTTGAGCATGGT ATCAGAAAACACCTGCCTTCAAATCCCACCTATCAGCTGCGTGTGACTTGAAGATGTTAAATTCTGTTCT GAGGCTTAC <u>TTTC</u> CTTGGTCAAATGAGAACAAACCAACTGCTCTCAAAGTCATCGTGAGGAA GAAATGTGGCAAAGTCTTCCATTCTGGGTAGTTAGTCACCGTCAACCACCATGTTACAAGTGTGA GAGTAGCTAACAGAAAATGATCTCAGTAGGGGGTACATTGTTATTGCTTTGTCACTCTCTT TTTTTTTTTTTTGAGACGGAGTTGCTCTGTCGCCAGGCTGGAGTGCACTGGCGCATC TCGGCTCACTGCAAGCTCACCTCCGGTTACGCCATTCTCCTGCCTCAGCCTCTGAGTAGCT GGGACTACAGGCCGCCACCACGCCGGCTAATTGTTGTTAGTAGAGGCGGGTTCA CTGTGTTAGCCAGGATGGCCTCGATCTCCTGACCTCATGATCCGCCCTGGCCTCCAAAGTG CTGGGATTACAGGCCTGAACCACCGGCCGGCGCTTGTCACTCTCAATAAACACTTTCTCTT AAATAATTAGATGCCGCCGGTACGGCTGTAATCCAGCATTTGGGAAGCCAAGGCAGGGCGG ATCACGAGGGCAGGAGATAGAGACCATCCTGGTAACATGGTAAACTCCATTACTAAAAATACA AAAAAATTAGCCAGGCATTCTGGCAGCTCTGTAGTCCCAGCTACTGGGAGGCTGAGGCAGGAG AATGGCGTAACCTGGGAGGCACAGCTGCAATGAGCCAGATTGTGCCACTGCAGTCCAACCTG GGCGACACAGCAAGACTGTCTCAATAATAATAATAATAATATTATTATTATTAGATGCCAA TTTCAGGCTAGCCGGACCAAATTGTTGCTAATTCTGAACTACTAAAATAGGAATTGATGAAGACTT CTGTATCCAGTTGGATGCACTGAGAACCTAGCTCTAATCCAGAAGTCCACATGGTTCA TTTGAGGAGACTCTAACCACGAACCCCTTAATGTTGGCAGTACTTAATGGACAGAGCACTGAAGT GGGAGTGAGGGCAACTGGGTTCTGATCCCAACTCTGTCTTGTGAGTCTAGCAAGTC <u>ACTCCTGCT</u> ACTGGCCTGG <u>TTTC</u> CTTGTGCAACTGAAGAA <u>CATGGAAAAA</u> ATGATCCCTAAA GTCCTTGAAGCTTCAATTCTGTAACTTGTGCCAAGAAGGCTTACAGTGAGATGGATCCCA GTATTATTGAG <u>TTTC</u> CTTCAAAATGGGATAATAATAGTAAATGAGTTGACACGCGCTAGGAC |

AGTGGAAATAGTGGCTGGCACAGATAAGCCCTCGTAAATGGTAGCCAATAATGATAGAGTATGCTGTA
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AGAACTCAAAGACATTAAGCACT**TTCC**CAAAGGTCGCTTAGCAAGTAAATGGGAGAGACCCATGA
CCAGGATGAAAGCAAGAAATTCCCACAAGAGGACTCATTCAACTCATATCTGTGAAAAGGTTCCC
AATGCCAGCTCAGATCAACTGCCTCAATTACAGTGTGAGTGCTCACCTCCTGGGGACTGTA
TATCCAGAGGACCCCTCAATAAAACACTTATAAAACATCCTCATGGATGAG**GGAAAGGAGG**
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TCTGCCCTCCATGTAAGTCTGGTCTGACCACACAGCCCTGGAGTCAGACTCTGCTAGAAT
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GTGTTCACTGAGTGTGGACTCATGTTGGGAGATTAGTAGTCATGAGTAGCTCACACTGACTTGAA
ACACGCTGACTCATGCCCTGCAGCAGGGTTCTAAGAAATTAACTAAACTAAACTAACTCCTGAG
ACCCCTGAGACAGCCATTCTCTCATTTCTAAATGTAaaaaaaaATTGGCTATGAGAGGGTATGTG
GCTTTATTAGAGTGAATACATTAAAAAACAAATAAAAAA

Primer1 Forward 5'-CAGAACCTCTCACATGTTG-3'
Reverse 5'-TTGGAAAGTATGCCATCTC-3'

Primer2 Forward 5'-TCTTAGCAAGTCACTCCTGC-3'
Reverse 5'-GATCCCCTCTCACTGTAAGG-3'

Primer3 Forward 5'-TTGGTGCTTGGTCAAAGAGG-3'
Primer3 Reverse 5'-AATAGCAACCAAGCATTGGC-3'

RANTES promoter sequence (1812 bp)

GCTAGCTAATTTTTGTATTTAGTAGAGGCGGGGTTCACTGTGTTAGCCAGGATGGCCTCGATCT
CCTGACCTCATGATCCGCCGCTGGCTCCAAAGTGCTGGATTACAGCGTGAACCACCGC
GCCCGCCGCTTGTCACTCTAACAAACACTTTCTCTAAATAATTCACTGCCGGGGTAC
GGCCTGTAATCCCAGCATTGGAGCCAAGGCCAGGCAGGGCGGATCACGAGGGCAGGAGATAGAGACC
ATCCTGGCTAACATGGTAAACTCCATTCTACTAAAATACAAAAAATTAGCCAGGCATTCTGGCC
AGCTCCTGTAGTCCAGCTACTTGGAGGCTGAGGCAGGAGAATGGCGTGAACCTGGAGGCACA
GCTTGCAATGAGCCGAGATTGCCCCACTGCAGTCCAAACCTGGCGACACAGCAAGACTGTCTCAAT
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ACTTTTGCCCCAAGAAGGCCCTACAGTGAGATGGGATCCCAGTATTATTGAGTTCTCATTCTA
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 CTTCGTTTGCAATTCACTTATGATACCGGCCATGCTGGTGTATTTGAAACTCCCT
 TAGGGATGCCCTCAACTGGCCCTATAAAGGCCAGCCTGAGCTCAGAGGATTAAGCTT

NFATc3 binding site: 5'-**CATGGAAAAA-3'**

3'-GTACCTTTT-5'

ChIP-qPCR: Chromatin immunoprecipitation-quantitative real-time PCR; RANTES: Regulated upon activation, normal T cell expressed and secreted.

Table S4. The expression of 40 inflammatory cytokines were examined by an inflammatory cytokines antibody array.

| Eotaxin-1 (CCL11) | Eotaxin-2 (CCL24) | GCSF | GM-CSF | ICAM-1 (CD54) |
|-------------------|---------------------|---------------|-------------|--------------------|
| IFN-gamma | I-309 (CCL1) | IL-1 alpha | IL-1 beta | IL-2 |
| IL-3 | IL-4 | IL-6 | IL-6 R | IL-7 |
| IL-8 (CXCL8) | IL-10 | IL-11 | IL-12 p40 | IL-12 p70 |
| IL-13 | IL-15 | IL-16 | IL-17A | IP-10 (CXCL10) |
| MCP-1 (CCL2) | MCP-2 (CCL8) | M-CSF | MIG (CXCL9) | MIP-1 alpha (CCL3) |
| MIP-1 beta (CCL4) | MIP-1 delta (CCL15) | RANTES (CCL5) | TGF beta 1 | TNF alpha |
| TNF beta | sTNF RI | sTNF RII | PDGF-BB | TIMP-2 |

CCL: Chemokine (C-C motif) ligand; GCSF: granulocyte colony-stimulating factor; GM-CSF: granulocyte macrophage colony stimulating factor; ICAM-1: intercellular cell adhesion molecule-1; IFN-gamma: interferon gamma; IL: interleukin; CXCL: chemokine (C-X-C motif) ligand; MCP: monocyte chemoattractant protein; MIP: macrophage inflammatory protein; RANTES: regulated upon activation, normal T cell expressed and secreted; TGF: transforming growth factor; TNF: tumor necrosis factor; sTNF R: soluble tumor necrosis factor receptor; PDGF-BB: platelet-derived growth factor; TIMP-2: tissue inhibitor of metalloproteinases 2; MIG: monokine induced by gamma interferon; IP-10: interferon gamma-induced protein 10; IL-6 R: interleukin-6 receptor.

Table S5. The binding sites for NFATc3 in the *RANTES* gene promoter were predicted using the JASPAR database.

| Matrix ID | Name | Score | Relative score | Sequence ID | Start | End | Strand | Predicted sequence |
|-----------|--------|---------|----------------|-------------|-------|------|--------|--------------------|
| MA0625.1 | NFATC3 | 11.9796 | 0.963359549 | CCL5 | 2533 | 2542 | - | TTTTTCCATG |
| MA0625.1 | NFATC3 | 9.88731 | 0.910201022 | CCL5 | 495 | 504 | + | ACTTTCCAAA |
| MA0625.1 | NFATC3 | 9.88619 | 0.910172431 | CCL5 | 509 | 518 | + | CGTTTCCATT |
| MA0625.1 | NFATC3 | 9.71347 | 0.905784199 | CCL5 | 2804 | 2813 | + | TTATTCCACT |
| MA0625.1 | NFATC3 | 8.78424 | 0.882175648 | CCL5 | 350 | 359 | + | CTTTTCCAGA |
| MA0625.1 | NFATC3 | 8.37427 | 0.871759732 | CCL5 | 1354 | 1363 | + | ACTTTCCCTCT |
| MA0625.1 | NFATC3 | 8.20001 | 0.867332199 | CCL5 | 252 | 261 | - | AGTTTCCTTA |
| MA0625.1 | NFATC3 | 7.90472 | 0.859829911 | CCL5 | 407 | 416 | - | TGTTTCCCTTC |
| MA0625.1 | NFATC3 | 7.89498 | 0.859582647 | CCL5 | 2692 | 2701 | - | CTATTCCACT |
| MA0625.1 | NFATC3 | 7.71715 | 0.855064568 | CCL5 | 2821 | 2830 | - | TATTTCCCTTG |
| MA0625.1 | NFATC3 | 7.39961 | 0.846996784 | CCL5 | 2633 | 2642 | + | AGTTTCCTCA |
| MA0625.1 | NFATC3 | 7.39776 | 0.84694996 | CCL5 | 1081 | 1090 | + | TTTTTCTATT |
| MA0625.1 | NFATC3 | 7.39676 | 0.846924446 | CCL5 | 568 | 577 | - | TTGTTCCAAG |
| MA0625.1 | NFATC3 | 7.12387 | 0.839991228 | CCL5 | 2334 | 2343 | + | AAGTTCCACA |
| MA0625.1 | NFATC3 | 6.98871 | 0.836557329 | CCL5 | 1489 | 1498 | - | ATTTTCTGTT |
| MA0625.1 | NFATC3 | 6.95327 | 0.835656906 | CCL5 | 2931 | 2940 | + | TCATTCCAAC |
| MA0625.1 | NFATC3 | 6.82972 | 0.832517749 | CCL5 | 1428 | 1437 | + | TCTTCCCATT |
| MA0625.1 | NFATC3 | 6.72564 | 0.829873567 | CCL5 | 2508 | 2517 | + | GGTTTCCCTCT |
| MA0625.1 | NFATC3 | 5.98541 | 0.811066825 | CCL5 | 2852 | 2861 | + | TTTTCCCAA |
| MA0625.1 | NFATC3 | 5.70279 | 0.803886464 | CCL5 | 2299 | 2308 | - | GCATTCCAAC |
| MA0625.1 | NFATC3 | 5.56741 | 0.800446822 | CCL5 | 2851 | 2860 | + | CTTTTCCCAA |
| MA0625.1 | NFATC3 | 5.56249 | 0.800321785 | CCL5 | 2401 | 2410 | - | TCTGTCCATT |

NFATC3: also known as NFAT4, Nuclear factor of activated T-cells, cytoplasmic 3; CCL5: also known as RANTES, chemokine C-C motif ligand 5.