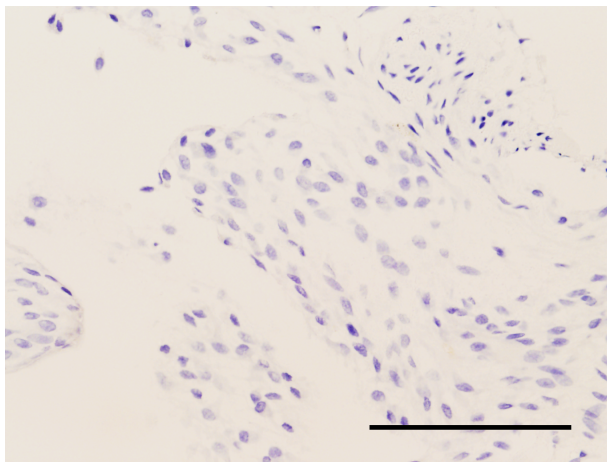


Supplementary Material

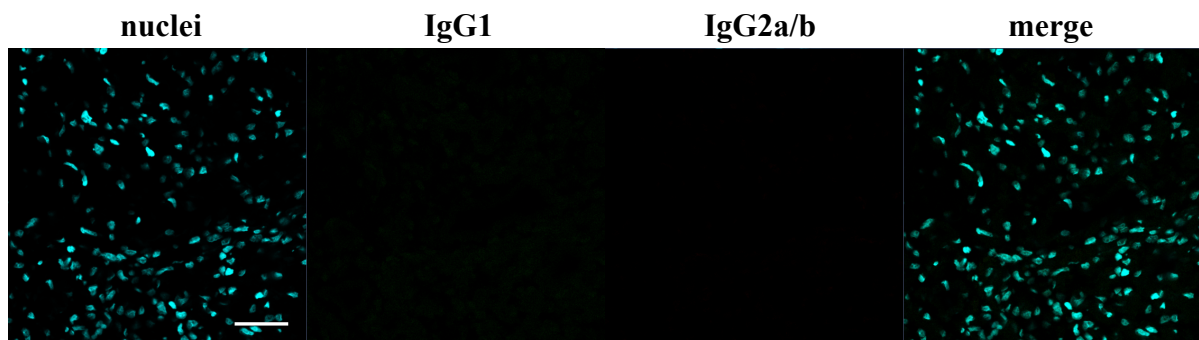
Interleukin-17 cytokines and receptors: potential amplifiers of tendon inflammation

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Supplementary Figures



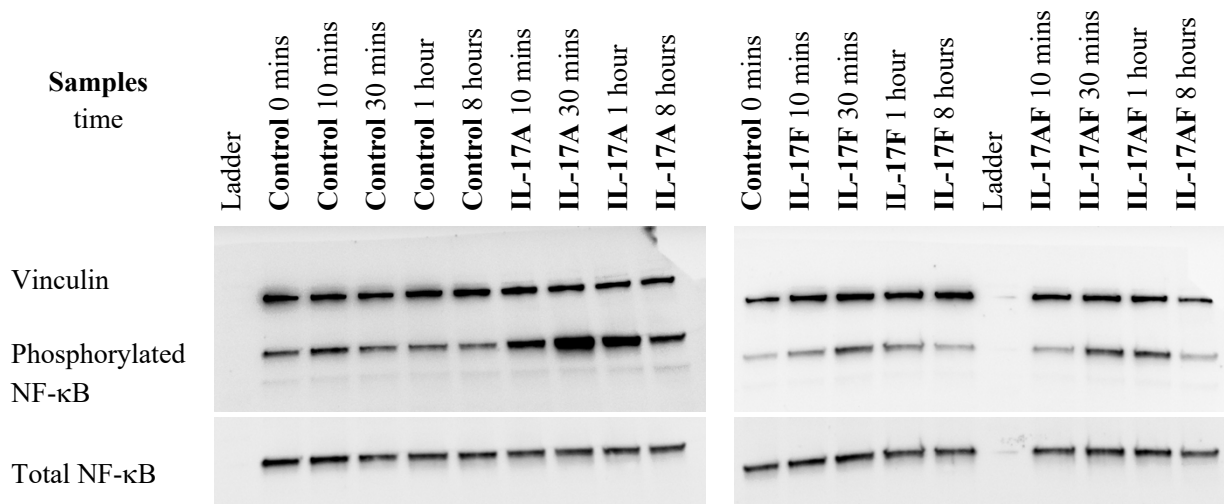
Supplementary Figure 1. Representative image showing isotype control using universal negative control mouse (Dako) on a section of supraspinatus tendon with a massive tear, counterstained with haematoxylin (blue). Images were taken at 40x magnification; scale bar = 100 μm .



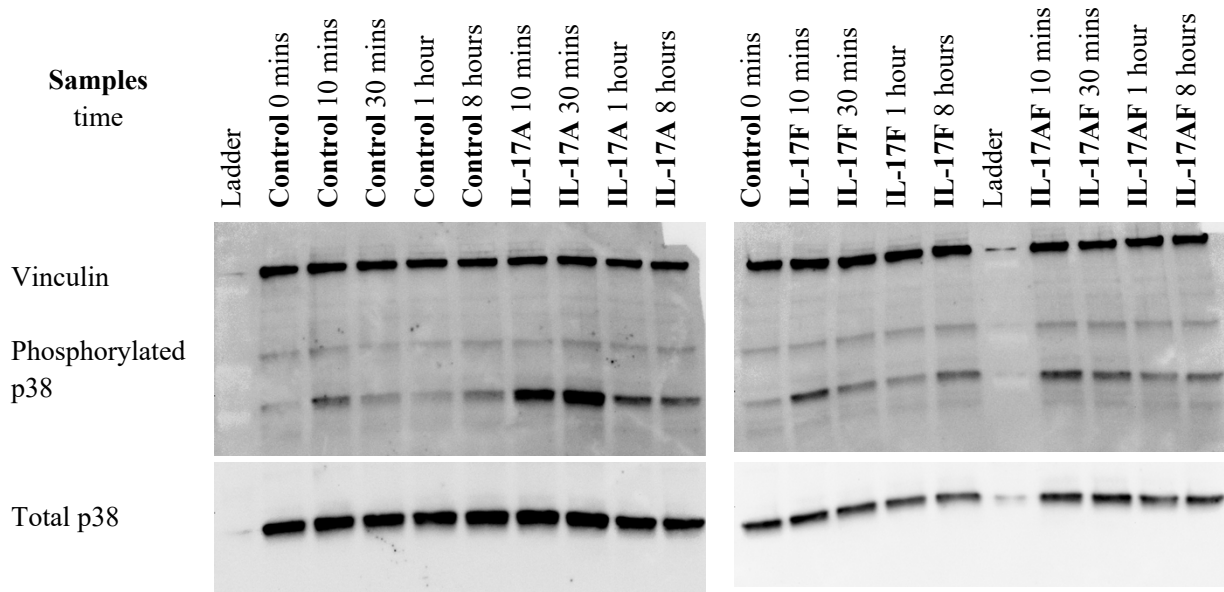
Supplementary Figure 2. Representative image showing isotype control staining using universal negative control mouse (IgG1, IgG2a, IgG2b) (Dako) on a section of supraspinatus tendon with a massive tear. Nuclei are counterstained with POPO-1 (cyan). Images taken at 40x; scale bar = 20 μm

Supplementary Figure 3A-C. Representative western blots that were incubated with antibodies for phosphorylated antibody and vinculin, washed, incubated with secondary antibody, and visualised with ECL. The blots were then stripped, blocked, and incubated with antibody for total protein, washed, incubated with secondary antibody, and visualised with ECL.

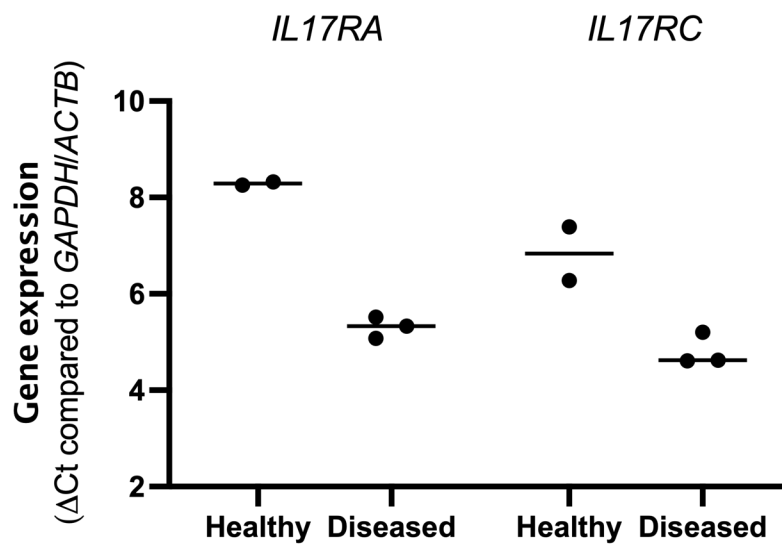
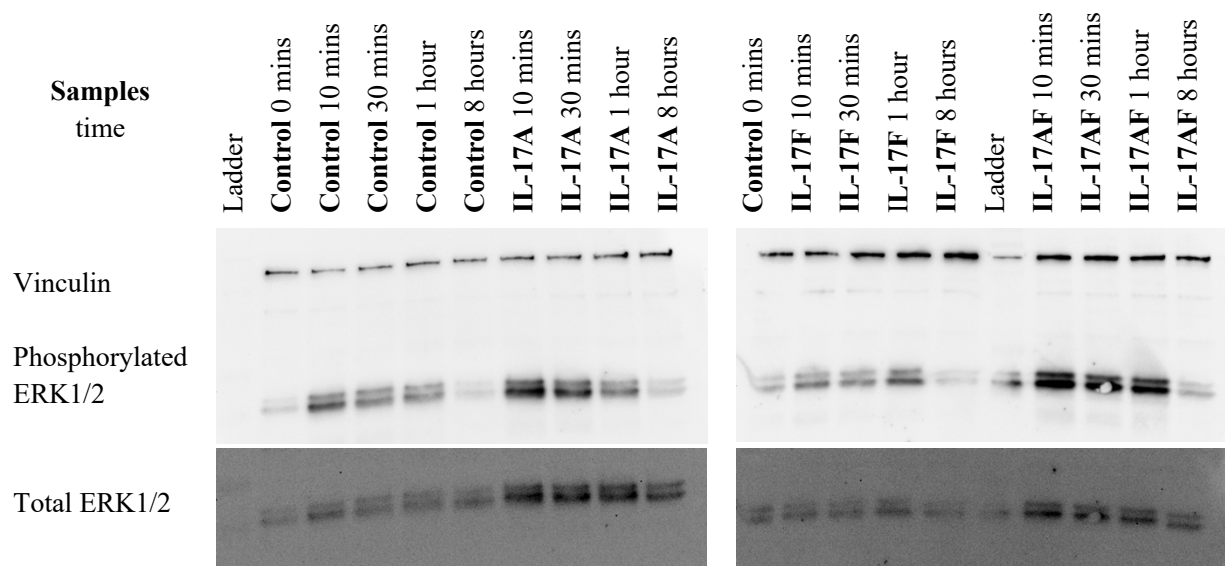
Supplementary Figure 3A. NF-κB.



Supplementary Figure 3B. p38.



Supplementary Figure 3C. ERK1/2.



Supplementary Figure 4. *IL17RA* (left) and *IL17RC* (right) mRNA expression in human tendon-derived cells from healthy hamstring tendons (healthy) and supraspinatus tendons with a large or massive tear (diseased), showing a relatively higher mRNA expression of IL-17 receptors in diseased tissue compared to healthy comparator tissue. Individual values and mean. N=2 (hamstring), N=3 (large/massive supraspinatus tendon tears).

Supplementary Tables

Supplementary Table 1. Primary antibodies used for immunohistochemistry and immunofluorescence, including the antibody target, isotype, supplier, reference number, and dilution at which the antibody was used.

| Target | Isotype | Supplier | Ref number | Dilution |
|----------------------------------|---|--|------------|--------------|
| Human IL-17A | Monoclonal mouse IgG1 | ProteinTech Group Inc, Rosemont, IL, USA | 66148-1-Ig | 1:500 |
| Human IL-17RA | Monoclonal mouse IgG2B | R&D systems | MAB1771 | 1:50 |
| Human IL-17RC | Monoclonal mouse IgG2B | R&D | MAB22691 | 1:1000 |
| Human podoplanin (PDPN) | Monoclonal mouse IgG1 | Abcam | ab10288 | 1:200 |
| Universal negative control mouse | Cocktail of mouse IgG1, IgG2a, IgG2b, IgG3, and IgM | Dako, Glostrup, Denmark | IR750 | Ready to use |

Supplementary Table 2. Secondary antibodies used for immunofluorescence, including antibody target, supplier, reference number, and dilution at which the antibody was used.

| Target | Supplier | Ref number | Dilution |
|--|--|------------|----------|
| Goat anti-mouse IgG1 (Alexa Fluor 488) | Southern Biotech (supplied by Cambridge Bioscience Ltd, Cambridge, UK) | 1070-02 | 1:200 |
| Alexa Fluor goat anti-mouse IgG2b (γ 2b) | Invitrogen | A21144 | 1:200 |

Supplementary Table 3. Primers used for RT-qPCR, including forward and reverse sequences.

| Target | Supplier | Forward | Reverse |
|---------------|-------------------|-------------------------------|--------------------------------|
| <i>GAPDH</i> | Designed in-house | GAAGGTTGAAGGTCG GAGTC | GAAGATGGTGATGGGAT TTC |
| <i>ACTB</i> | Designed in-house | CCTGGCACCCAGCAC AAT | GCCGATCCACACGGAGT ACT |
| <i>IL6</i> | Primerdesign Ltd | GCAGAAAACAACCTG AACCTT | ACCTCAAACCTCCAAAAG ACCA |
| <i>IL17RA</i> | Primerdesign Ltd | TGAGCACATGCACCA CATACT | TTAAGGTTGCGTAGAGT GAGTG |
| <i>IL17RC</i> | Primerdesign Ltd | AGTCGTGCTCTCCTTC CAG | AGATTCGTACCTTCACT CCCTAG |
| <i>MMP3</i> | Primerdesign Ltd | ATGATGAACAATGGA CAAAGGATAC | AGTGTTGGCTGAGTGAA AGAG |
| <i>PTGS2</i> | Primerdesign Ltd | CAGGCTTCCATTGAC CAGAG | TTTCTCCTGTAAGTTCTT CAAATGAT |
| <i>PDPN</i> | Primerdesign Ltd | CCGAAGATGATGTGG TGACTC | CGATGCGAATGCCTGTT ACA |

Supplementary Table 4. Primary and secondary antibodies used for western blot experiments, including target, supplier, reference number, and the dilution at which each antibody was used.

| Target | Supplier | Ref number | Dilution |
|---------------------------------|--|------------|--|
| Vinculin (reference protein) | Cell Signalling Technology, Danvers, MA, USA | 13901 | 1:1000 |
| phospho-ERK1/2 | Cell Signalling Technology | 4370 | 1:2000 |
| ERK1/2 | Cell Signalling Technology | 4695 | 1:1000 |
| phospho-p65 NF- κ B | Cell Signalling Technology | 3033 | 1:1000 |
| p65 NF- κ B | Cell Signalling Technology | 8242 | 1:1000 |
| phospho-p38 | Cell Signalling Technology | 4511 | 1:1000 |
| p38 | Cell Signalling Technology | 8690 | 1:1000 |
| Anti-rabbit IgG, HRP- linked | Cell Signalling Technology | 7074 | 1:1000 (phospho- antibodies) 1:2000 (total-antibodies) |