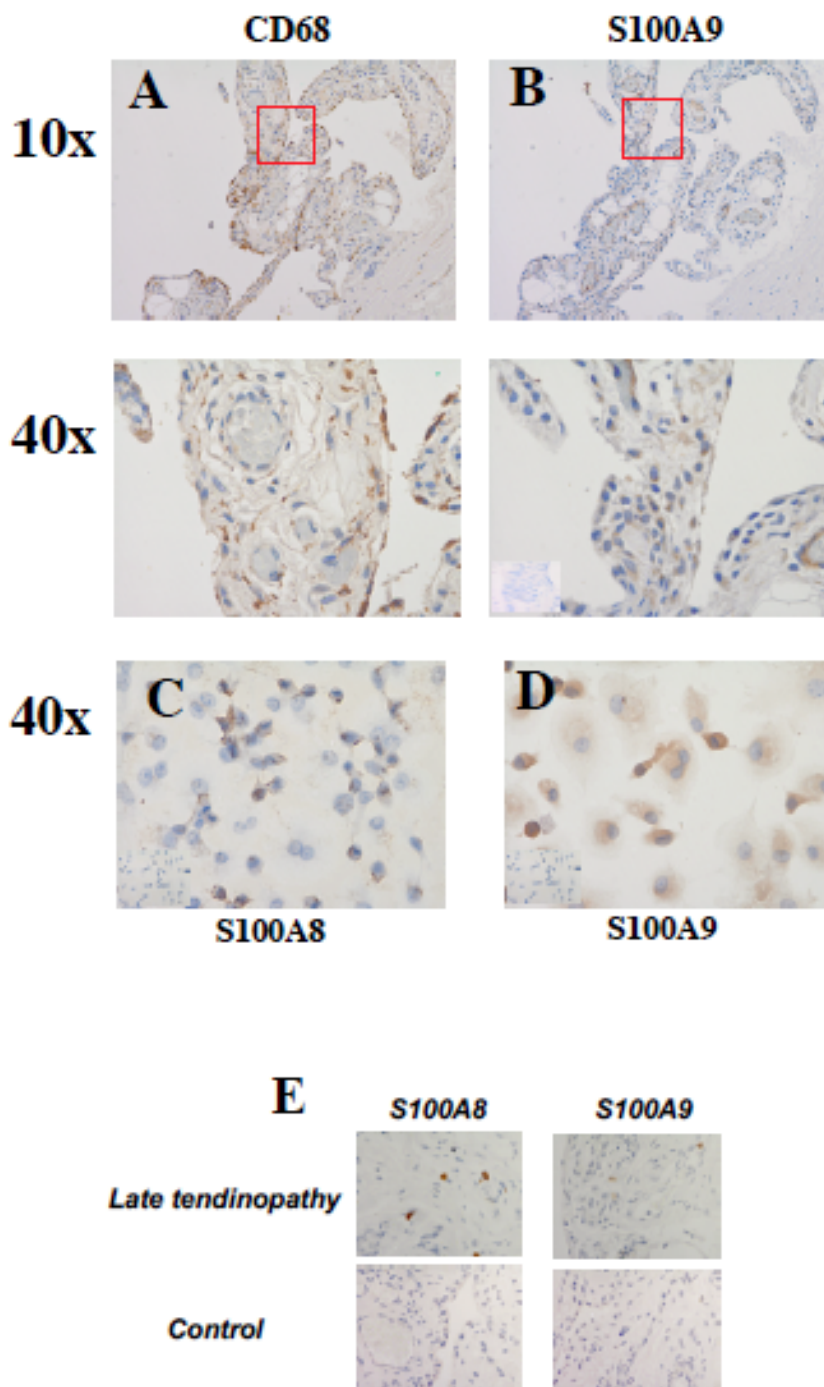


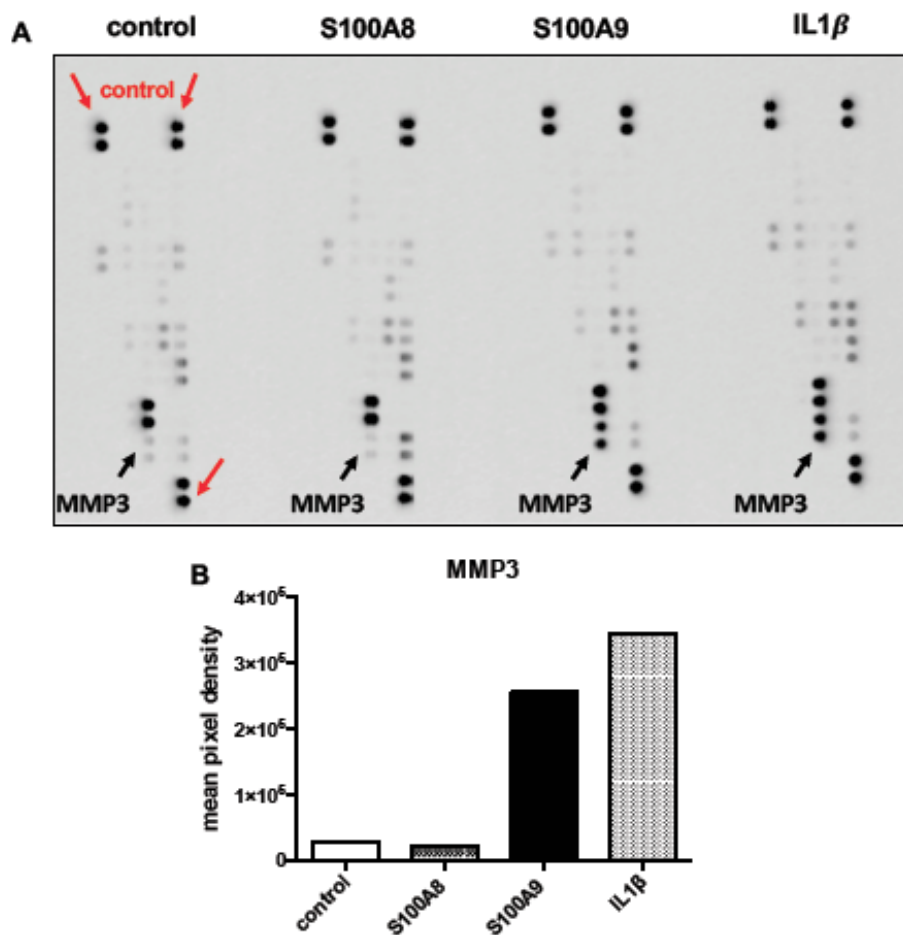
S100A8 & S100A9: Alarmin mediated inflammation in tendinopathy

Lindsay AN Crowe¹, Michael McLean¹, Susan M Kitson¹, Emma Garcia Melchor¹, Katharina Patomell¹, Hai Man Cao³, James H Reilly¹, William J Leach², Brian P Rooney², Simon J Spencer², Michael Mullen², Max Chambers², George AC Murrell³, Iain B McInnes¹, Moeed Akbar¹ and Neal L Millar¹.



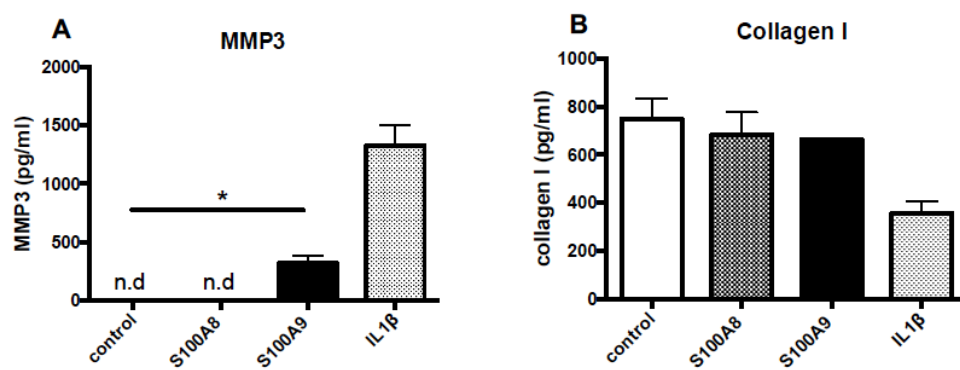
Supplementary Fig. S1

(A) (B) shows positive staining for CD68 (pan macrophage marker) localised to positive staining of S100A9. (C&D) Macrophages showing positive staining for S100A8 and S100A9. (E) Immunostaining of S100A8 and S100A9 in late tendinopathy (supraspinatus biopsy) and control (subscapularis) tendinopathy.



Supplementary Fig. S2

(A) Single sample protease array using supernatants from tenocytes stimulated with 1 μ g/ml S100A8, 1 μ g/ml S100A9 or 10ng/ml IL-1 β for 24 hours with unstimulated control. (B) Signal pixel density of MMP3 plotted relative to control. Statistical analysis was not performed.



Supplementary Fig. S3

Concentration of MMP3 (A) and collagen I (B) in cell culture supernatants (expressed as pg/ml) from tenocytes stimulated with 1ug/ml S100A8, 1ug/ml S100A9 or 10ng/ml IL-1 β for 24 hours with unstimulated control. All data represent mean $\pm$ SEM, n=3, * p<0.05.