

Supplementary Materials for

NF- κ B activation persists into the remodeling phase of tendon healing and promotes myofibroblast survival

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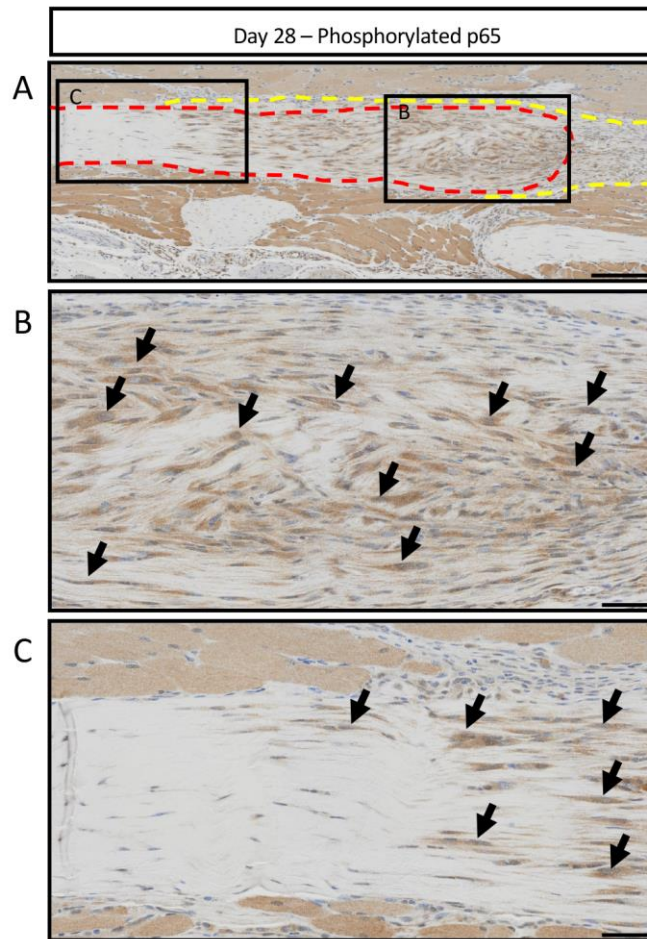


Fig. S1. Phosphorylated p65 staining is localized at injury site. (A to C)

Immunohistochemistry for phosphorylated p65 (phospho-p65) in mouse flexor tendon at day 28 post-repair. The tendon is outlined by a red dotted line, and scar tissue by yellow dotted line. Black boxes in the upper image indicate the regions shown below in the higher magnification images. Black arrows indicate examples of positive staining. Images are representative of N=3 mice. Scale bars, 200 μ M (A) and 50 μ M (B and C).

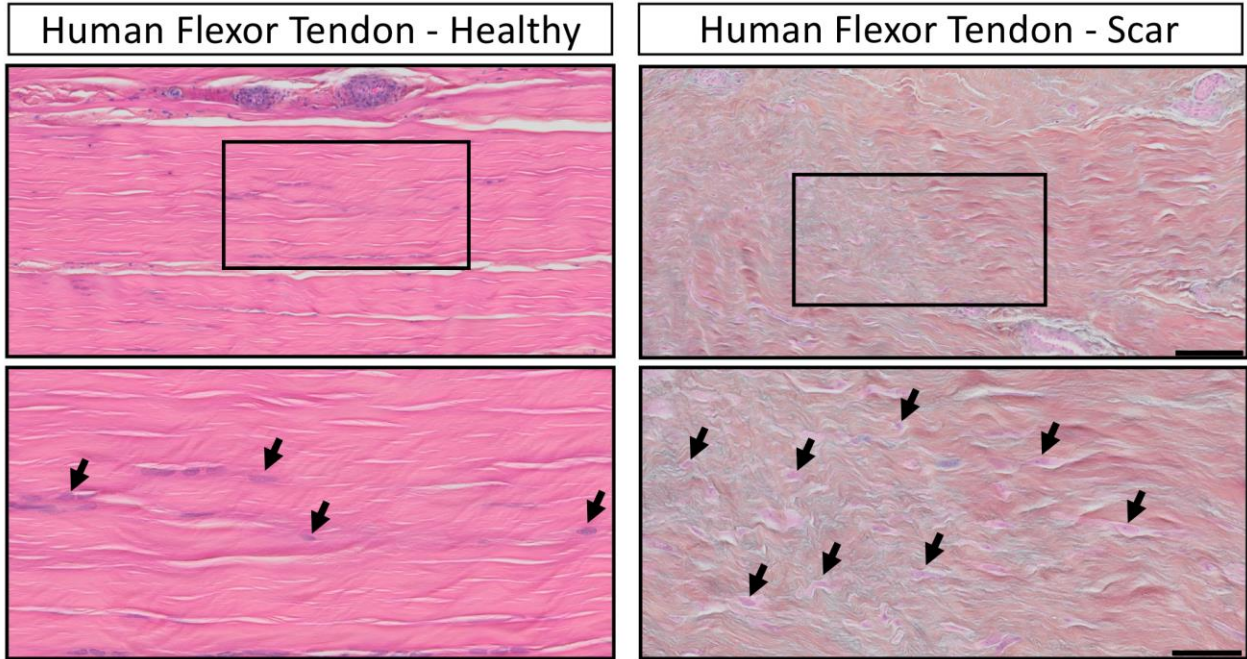


Fig. S2. Comparison of healthy and injured human flexor tendon. Alcian blue/hematoxylin and Orange G stain of healthy and scarred human flexor tendon tissue. Black boxes in the upper image indicate the regions shown below in the higher magnification images. Black arrows indicate nuclei stained with hematoxylin. N=2 healthy and N=2 scarred human tendon tissue samples. Scale bars, 100 μ M (upper) and 50 μ M (lower).

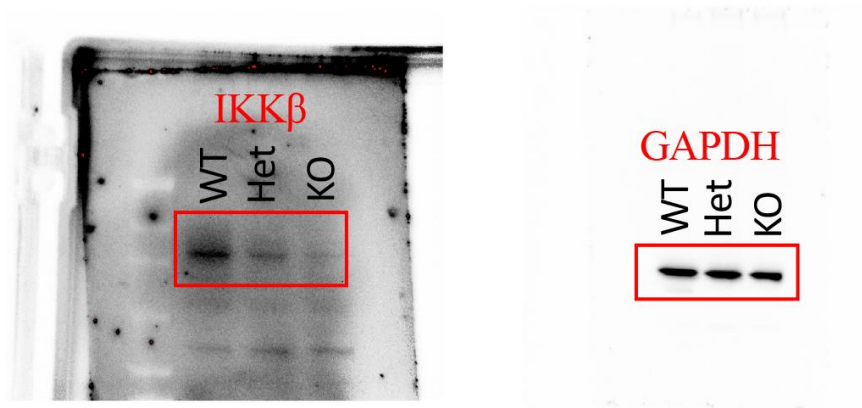


Fig. S3. Full-length western blots for data from uninjured tendons. Full-length western blot data for IKK β and GAPDH bands presented in Fig.3. N=3 tendons per genotype.

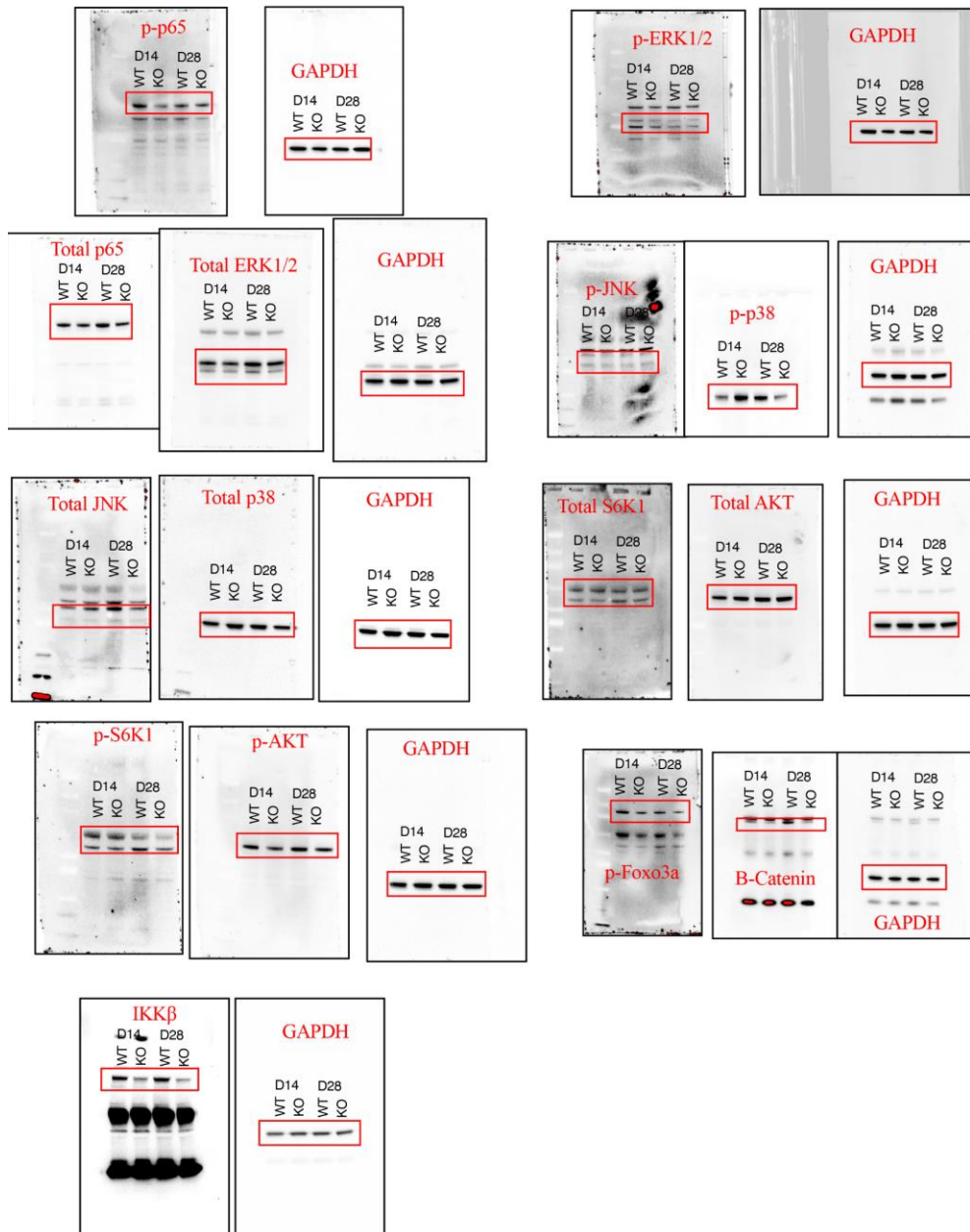


Fig. S4. Full-length western blots for data from repaired tendons. Full length western blot data for IKK β , total and phosphorylated p65, total and phosphorylated ERK1/2, total and phosphorylated p38, total and phosphorylated JNK, total and phosphorylated AKT, total and phosphorylated S6K1, β -catenin, and phosphorylated Foxo3a presented in Fig.4. N=3 tendons per genotype per timepoint.

Table S1. qPCR primer sequences.

Gene	Sequence (5' -> 3')		Reference Sequence
Recombined Ikbkb (spans exons 6-7)	Fwd	CGAAAACAGAATCATCCATCGA	NM_001159774.1
	Rev	TTGTGTATTAATCTTTTCTCTCCTTGCT	
Actb	Fwd	AGATGTGGATCAGCAAGCAG	NM_007393.5
	Rev	GCGCAAGTTAGTTTTGTCA	

Table S2. *P* values for student's *t* test and Mann-Whitney test when $n \leq 4$.

Comparison	Unpaired Student's t-test	Mann-Whitney/Wilcoxon Test
<i>IKBKB</i> gene expression	0.0114*	0.0571
D28 BCL-2	0.0654*	0.0571
D28 BCL-xL	0.3711*	0.4857
D28 Cleaved Caspase 3	0.0311*	0.0286
D14 HSP47	0.3565	0.8571*
D28 HSP47	0.3821*	0.4857
D14 Periostin	0.4353*	0.6286
D28 Periostin	0.0084*	0.0286
D14 F4/80	0.0557*	0.0571
D28 F4/80	0.0601	0.2000*
D14 iNOS	0.0660	0.1143*
D28 iNOS	0.7194*	0.6857
D14 IL-1RA	0.2504*	0.2286
D28 IL-1RA	0.0022	0.0286*
D14 α SMA	0.0338*	0.1143
D28 α SMA	0.3586	0.2000*
D14 S100a4	0.0240*	0.0571
D28 S100a4	0.4641*	0.6857
D14 FAP	0.0056*	0.0571
D28 FAP	0.9908*	>0.9999
D14 VCAM-1	<0.0001*	0.0571
D28 VCAM-1	0.0782*	0.0571