Table S1: List of primers used for real-time PCR assays in the manuscript

Gene	Primer	Sequence (5´to 3´)
NRP-1	Forward	CTCCTGTTGTGTCTTCAGG
	Reverse	CCCGATGAGGATCGGATTC
sST2	Forward	CGTTACCTTCCTGTGCCATT
	Reverse	CTCCATTTGCCAATCATGTG
ST2L	Forward	AGTTGTGCATTTACGGGAGAG
	Reverse	GGATACTGCTTTCCACCACAG
IL-33	Forward	TGGCCTCACCATAAGAAAGG
	Reverse	GCAAACGCTTGGATACTGC
HPRT	Forward	TTGCTTTCCTTGGTCAGGCA
	Reverse	ATCCAACACTTCGTGGGGTC
β-actin	Forward	GCCGCCAGCTCACCAT
	Reverse	TCGATGGGGTACTTCAGGGT
GADPH	Forward	ACCAGCCCCAGCAAGAGCACAAG
	Reverse	TTCAAGGGGTCTACATGGCAACTG

Table S2. Proteome alterations induced by sST-2 in human cardiac fibroblasts

Protein name	Uniprot code	Gene name	Fold-change ST2 /Control
Down-regulated proteins in ST-2-treated cells			
Histone H1.5	P16401	HIST1H1B	0.56029477
Mitofusin-1	Q8IWA4	MFN1	0.6570627
Actinfilament-associatedprotein 1	Q8N556	AFAP1	0.66072435
Charged multivesicular body protein 4a	E9PSI1	CHMP4A	0.69763398
SH3 domain-containing kinase-binding protein 1	Q5JPT2	SH3KBP1	0.70692753
Small nuclear ribonucleoprotein E	P62304	SNRPE	0.71390947
Na(+)/H(+) exchange regulatory cofactor NHE-RF2	Q15599-2	SLC9A3R2	0.73573919
Tumor susceptibility gene 101 protein	F5H442	TSG101	0.75621962
Prefoldinsubunit 2	Q9UHV9	PFDN2	0.75739442
Synaptobrevinhomolog YKT6	O15498	YKT6	0.76696515
Up-regulated proteins in ST-2-treated cells			
Nectin-2	Q92692-2	PVRL2	1.31688694
Eukaryotic translation initiation factor 5B	A0A087WUT6	EIF5B	1.32187402

Neuropilin-1	E9PEP6	NRP1	1.33730071
E3 SUMO-protein ligase RanBP2	P49792	RANBP2	1.46901186
ADP-ribosylation factor 5	P84085	ARF5	1.57810952
Rab-likeprotein 6	Q3YEC7	RABL6	1.65312128
Interleukin-1 receptor-like 1	E9PC41	IL1RL1	2.16884842
Ig gamma-1 chain C region	A0A087X1C7	IGHG1	2.28690335

FIGURE LEGENDS

Supplemental Figure 1. Representative western blot out of three. Stain free with 9 controls and 8 ST-2 conditions corresponding to 8 datapoints per condition graphed in the manuscript. Complete blots for α-SMA and Collagen 3 from main figure 1A, D.

Supplemental Figure 2. Representative western blot out of three. Stain free with 8 controls and 7 ST-2 conditions corresponding to 7 datapoints per condition graphed in the manuscript. Complete blots for Vimentin and CTGF from main figure 1A, F.

Supplemental Figure 3. Representative western blot out of two. Stain free with 5 controls and 5 ST-2 conditions corresponding to 5 datapoints per condition graphed in the manuscript. Complete blot for NRP-1 from main figure 2A.

Supplemental Figure 4. Representative western blot out of five. Stain free with 4 controls, 4 ST-2 and 4 ST-2+BAY conditions corresponding to 4 datapoints per condition graphed in the manuscript. Complete blots for α-SMA, Vimentin and CTGF from main figure 3B, D.

Supplemental Figure 5. Representative western blot out of three. Stain free with 5 controls, 4 ST-2 and 4 ST-2+KO NRP-1 conditions corresponding to 4 datapoints per condition graphed in the manuscript. Complete blots for α-SMA, Vimentin and CTGF from main figure 3H, K.

Supplemental Figure 6. Representative western blot out of five. Stain free with 6 controls, 2 NRP-1 10^{-10}M, 2 NRP-1 10^{-9}M and 2 NRP-1 10^{-8}M conditions

corresponding to 2 datapoints per condition graphed in the manuscript. Complete blots for α-SMA and Vimentin from main figure 4A.

Supplemental Figure 7. Representative western blot out of two. Stain free with 3 controls, 4 NRP-1 10^{-10}M, 4 NRP-1 10^{-9}M and 4 NRP-1 10^{-8}M conditions corresponding to 4 datapoints per condition graphed in the manuscript. Complete blot for CTGF from main figure 4E.

Supplemental Figure 8. Representative western blots out of five from each type. Stain free with 2 controls, 2 conditions of 10^{-8}M NRP-1 for 5 minutes, 2 conditions of 10^{-8}M NRP-1 for 10 minutes 2 conditions of 10^{-8}M NRP-1 for 15 minutes, 2 conditions of 10^{-8}M NRP-1 for 30 minutes and 2 conditions of 10^{-8}M NRP-1 for 60 minutes. These blots shown correspond to 2 datapoints per condition graphed in the manuscript. Complete blots for p-NFκB, NFκB, p-p42/44 and p42/44 from main figure 5A, B.

Supplemental Figure 9. Representative western blots out of five from each type. Stain free with 2 controls, 2 conditions of 10^{-8}M NRP-1 for 5 minutes, 2 conditions of 10^{-8}M NRP-1 for 10 minutes 2 conditions of 10^{-8}M NRP-1 for 15 minutes, 2 conditions of 10^{-8}M NRP-1 for 30 minutes and 2 conditions of 10^{-8}M NRP-1 for 60 minutes. Complete blots for IRAK1/4, p-p38 and p38 from main figure 5C, D.

Supplemental Figure 10. Representative western blot out of two. Stain free with 5 controls, 5 NRP-1 and 5 NRP-1+BAY conditions, corresponding to 5 datapoints per condition graphed in the manuscript. Complete blot for α-SMA and Vimentin from main figure 5E.

Supplemental Figure 11. Representative western blot out of two. Stain free with 7 controls and 6 PO rats conditions corresponding to 6 datapoints per condition graphed in the manuscript. Complete blots for ST-2, IL-33, MyD88, TRAF6 and AP-1 from main figure 6A, F, G.

Supplemental Figure 12. Perivascular myocardial fibrosis in control and PO rats. Immunostaining for α-SMA, vimentin and fibronectin in control and PO rats

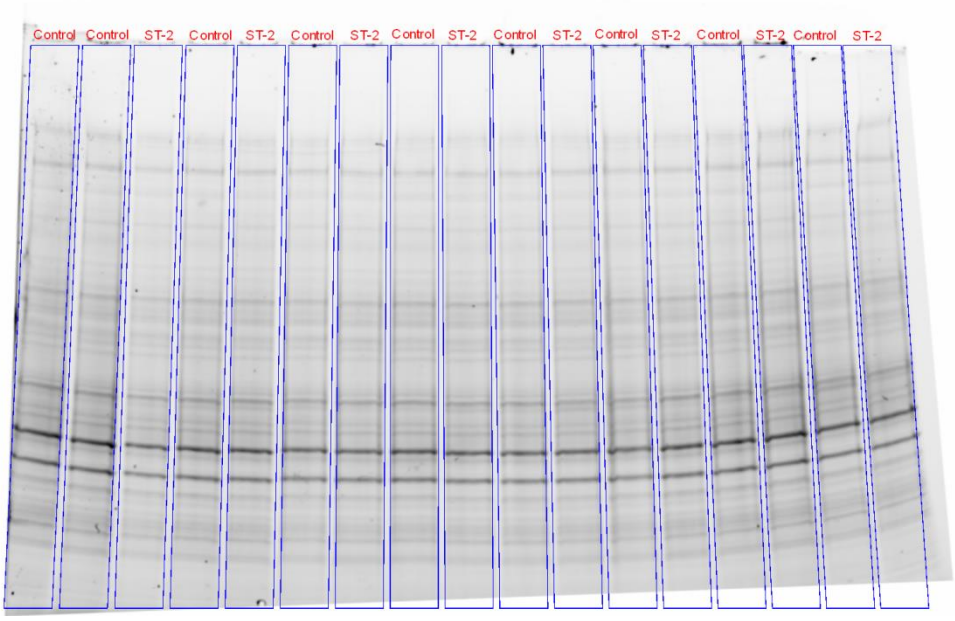


Figure 1A - α-SMA – 42 kDa

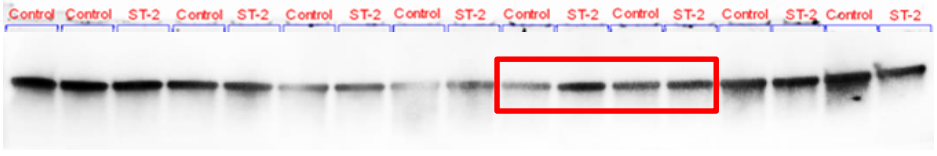
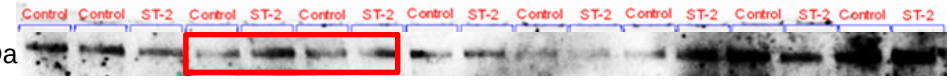
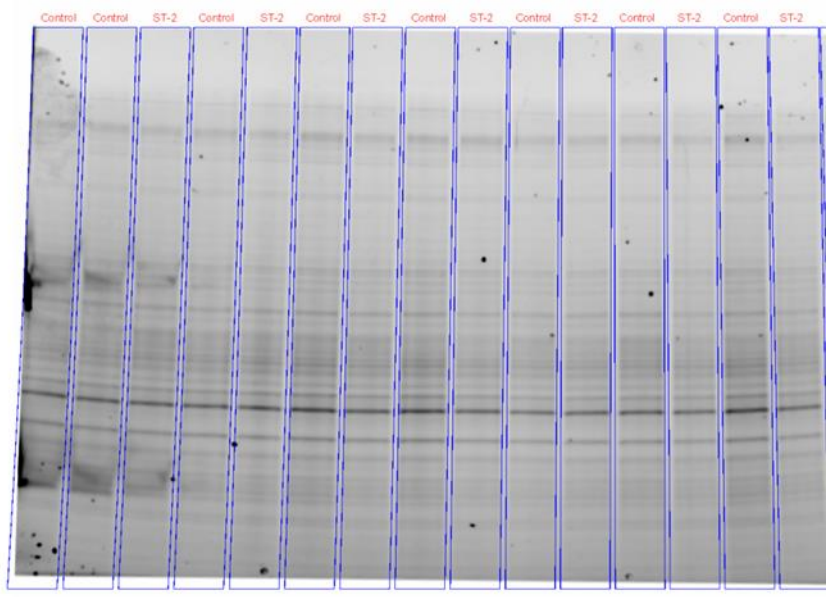


Figure 1D - Col3 – 140 kDa



Supplemental Figure 1



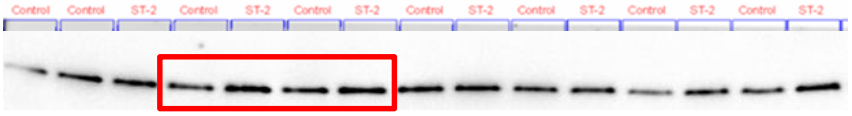


Figure 1A - Vimentin – 54 kDa

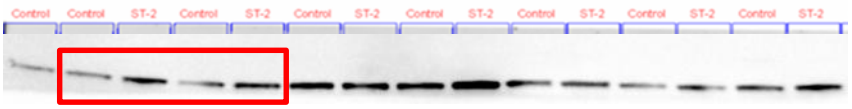
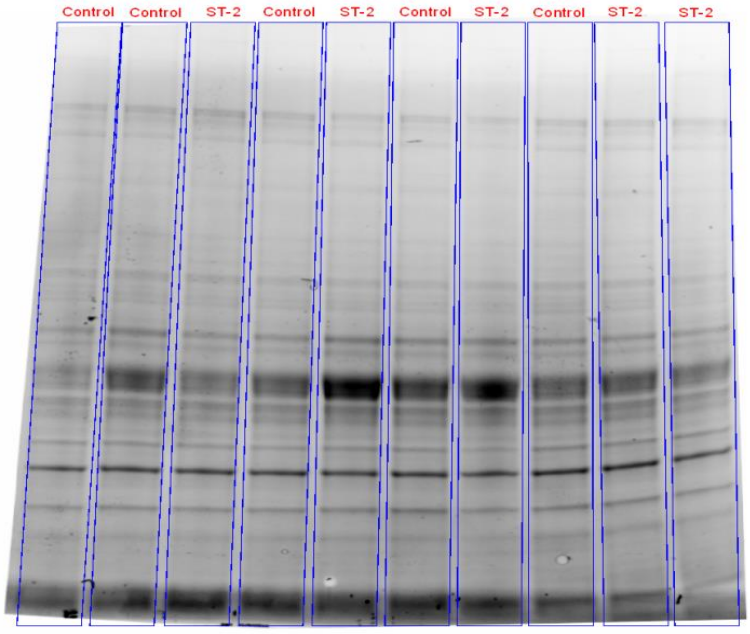


Figure 1F - CTGF– 38kDa

Supplemental Figure 2



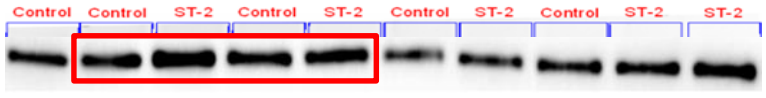


Figure 2A - NRP-1 - 103 kDa

Supplemental Figure 3

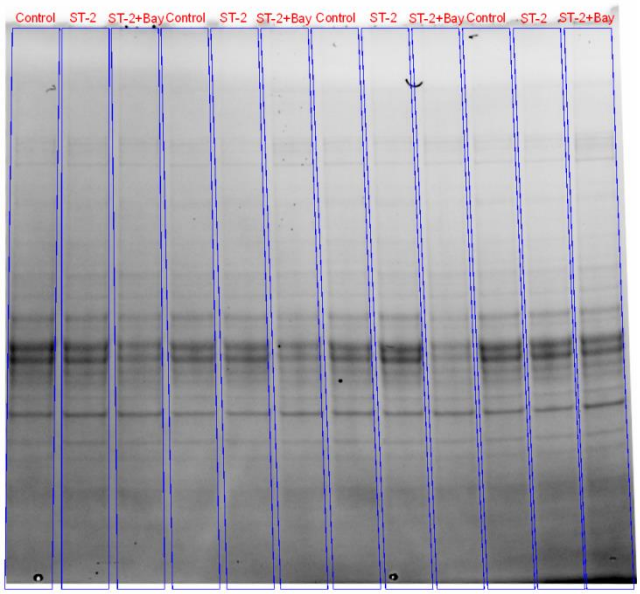


Figure 3B – α-SMA – 42 kDa

Figure 3B - Vimentin – 54 kDa

Figure 3D - CTGF– 38kDa

Supplemental Figure 4

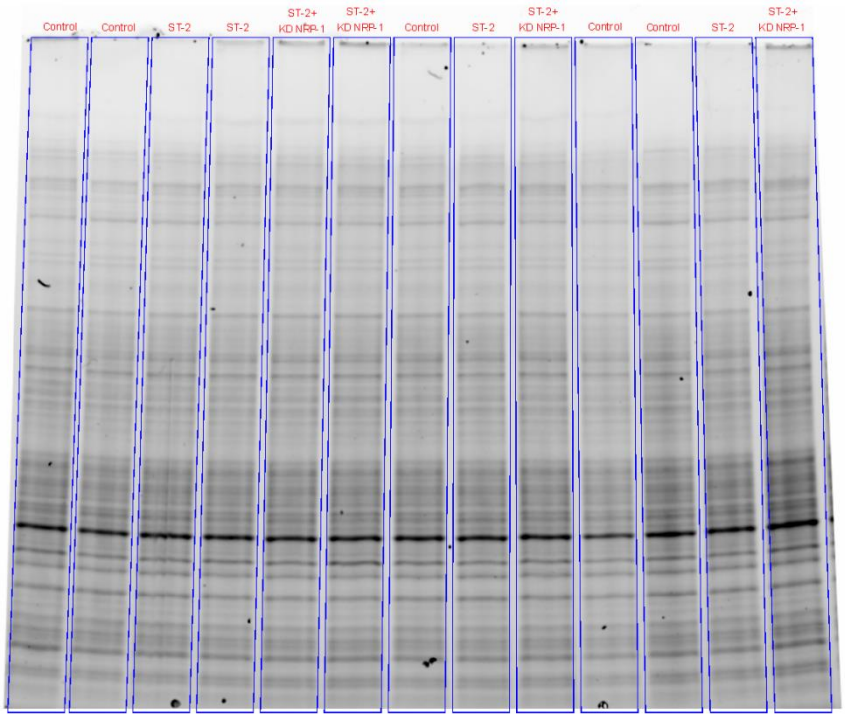


Figure 3H - α-SMA – 42 kDa

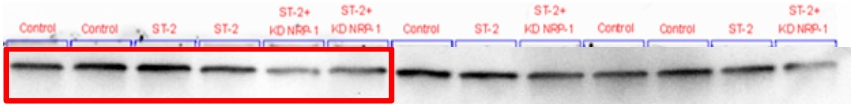


Figure 3H - Vimentin – 54 kDa

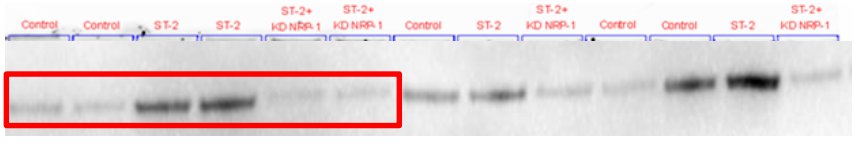
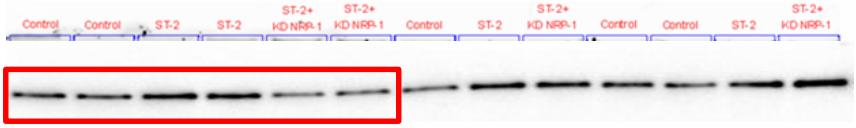
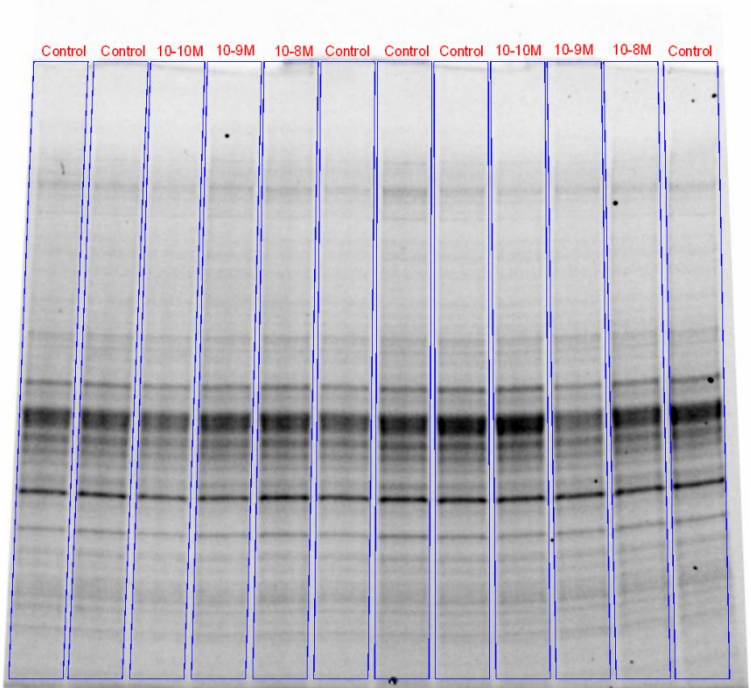


Figure 3K - CTGF– 38kDa



Supplemental Figure 5



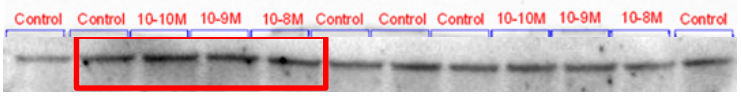


Figure 4A - α-SMA – 42 kDa

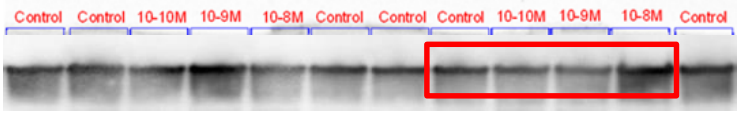


Figure 4A - Vimentin – 54 kDa

Supplemental Figure 6

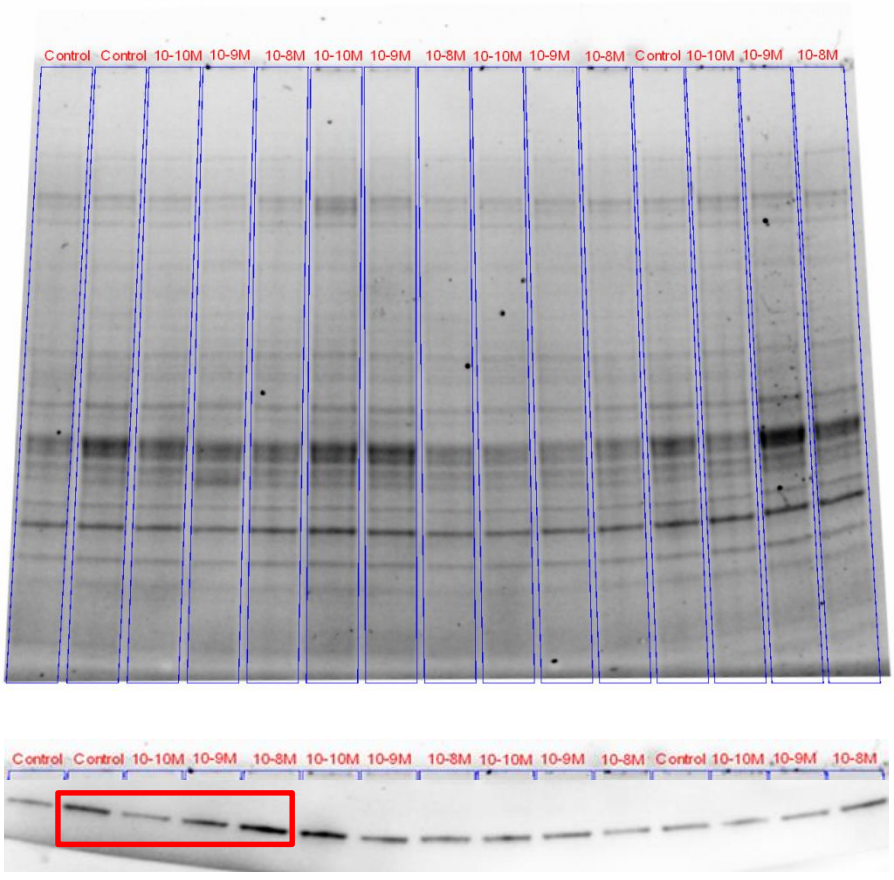


Figure 4E - CTGF– 38kDa

Supplemental Figure 7

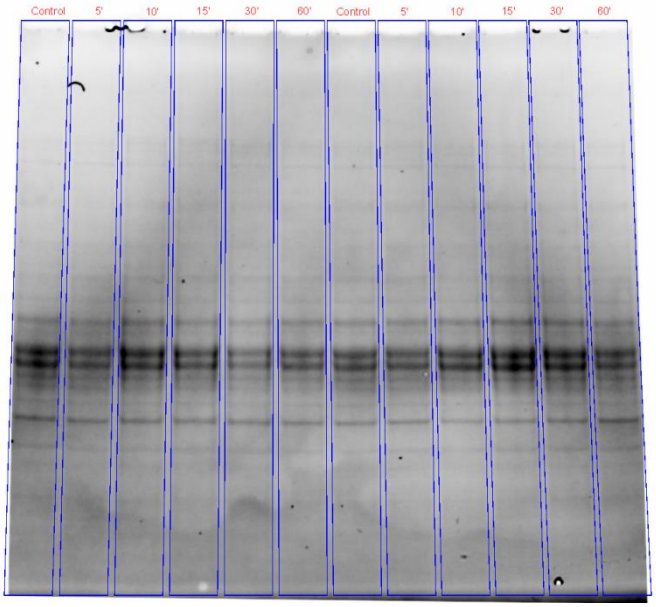


Figure 5A - p-NFκB – 65 kDa

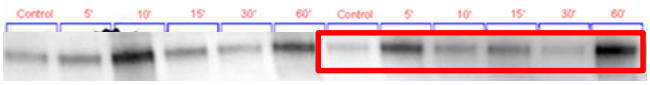
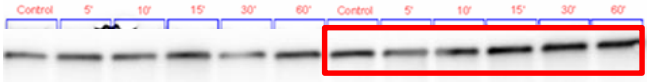


Figure 5A - NFκB – 65 kDa



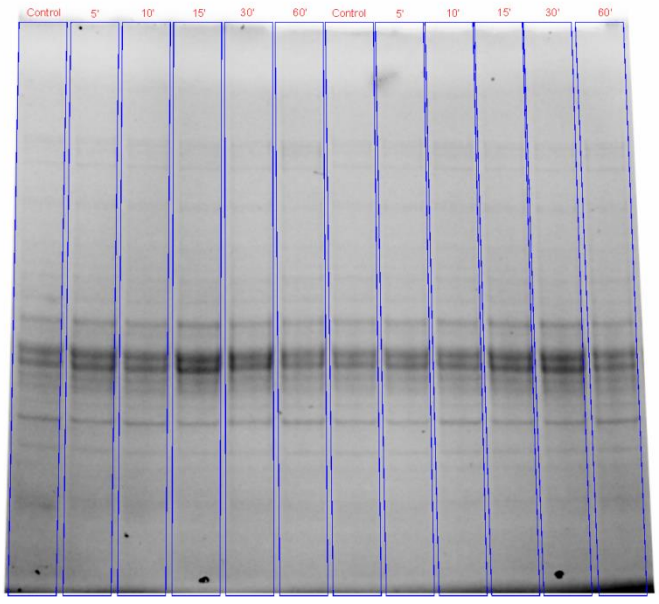


Figure 5B - p-p42/44 – 42-44 kDa

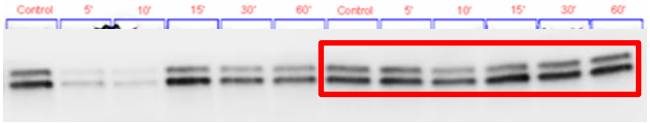
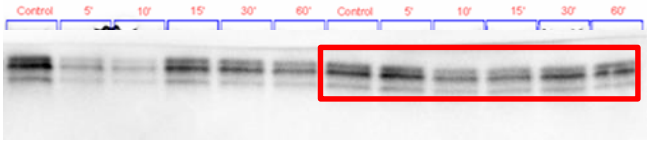


Figure 5B - p42/44 – 42-44 kDa



Supplemental Figure 8

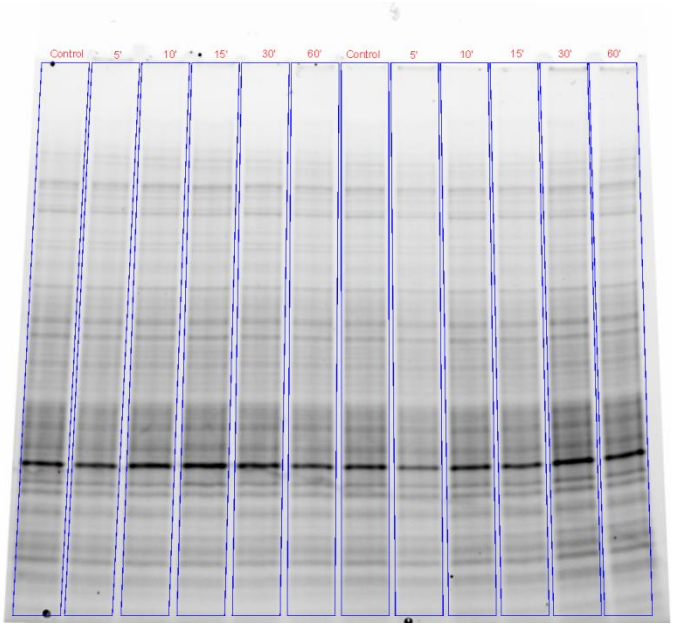


Figure 5C - IRAK1/4 – 80 kDa

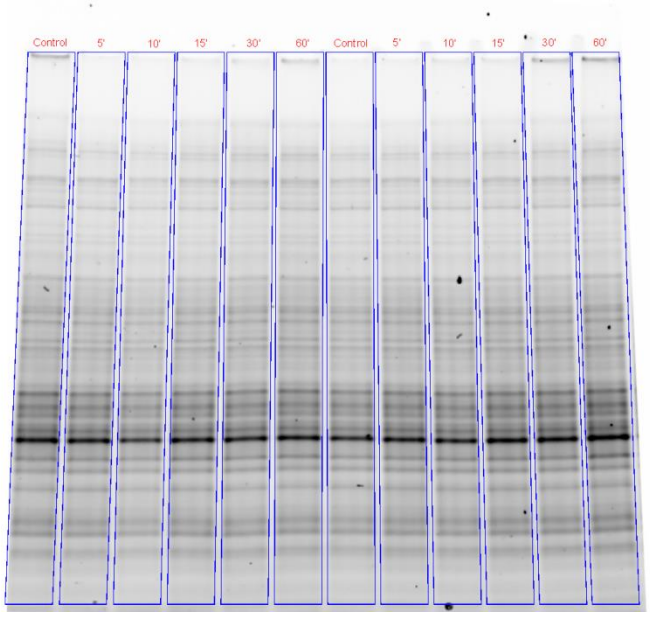


Figure 5D - p-p38 – 43 kDa

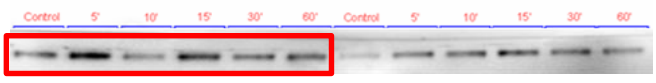
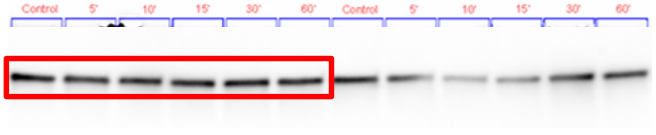
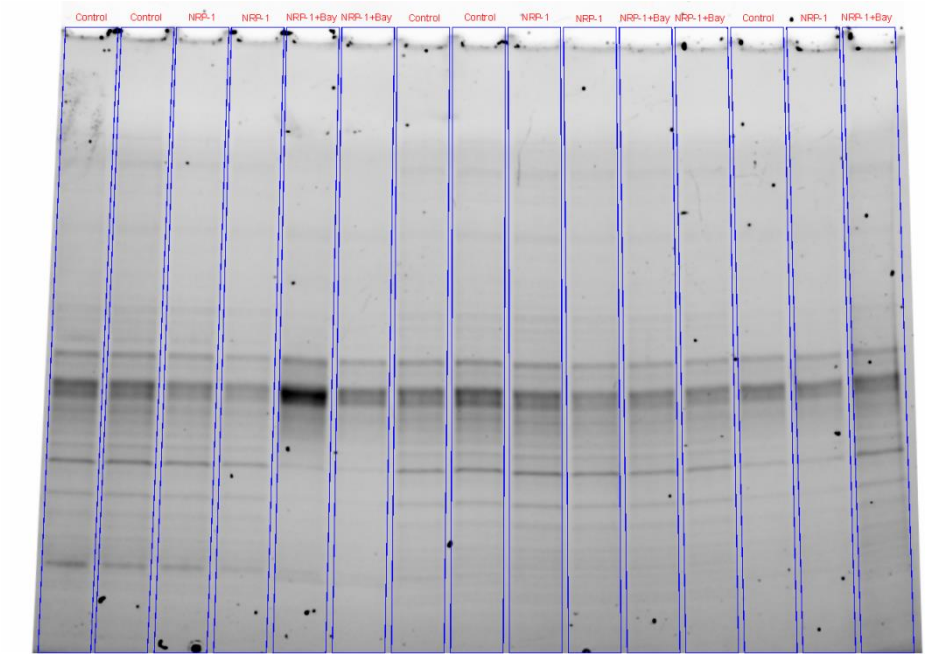


Figure 5D - p38 – 43 kDa



Supplemental Figure 9



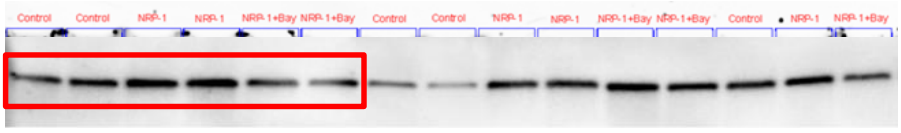


Figure 5E - α-SMA – 42 kDa

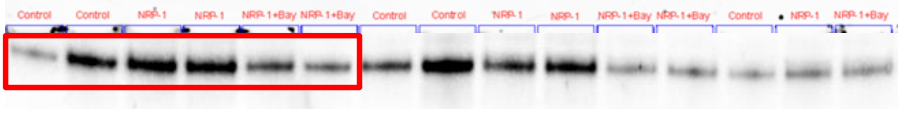


Figure 5E - Vimentin – 54 kDa

Supplemental Figure 10

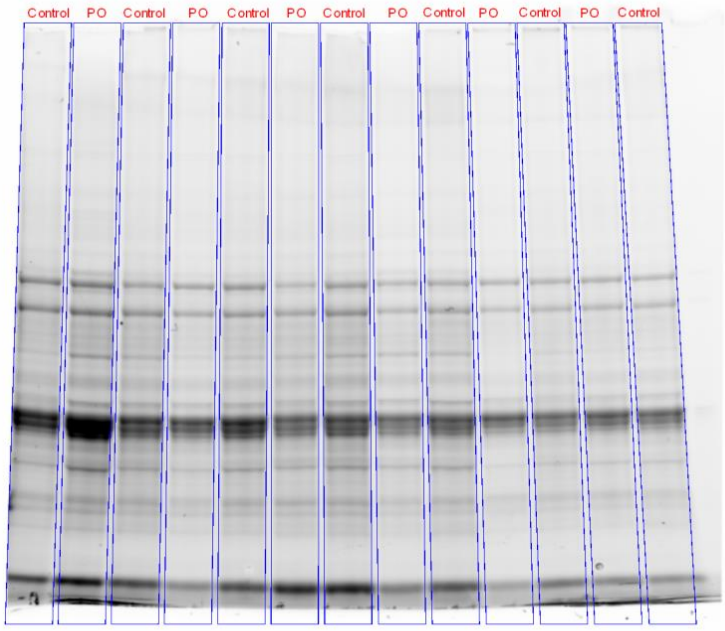


Figure 6A - ST-2 – 29 kDa

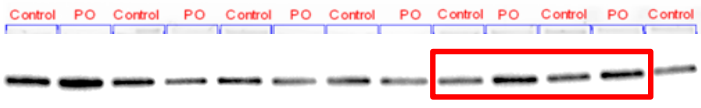


Figure 6F - IL-33 – 30 kDa

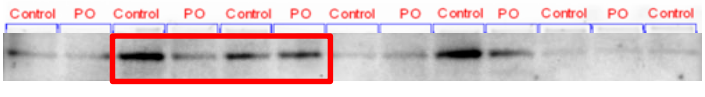


Figure 6G - MyD88 – 33 kDa

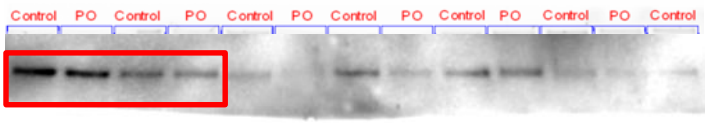
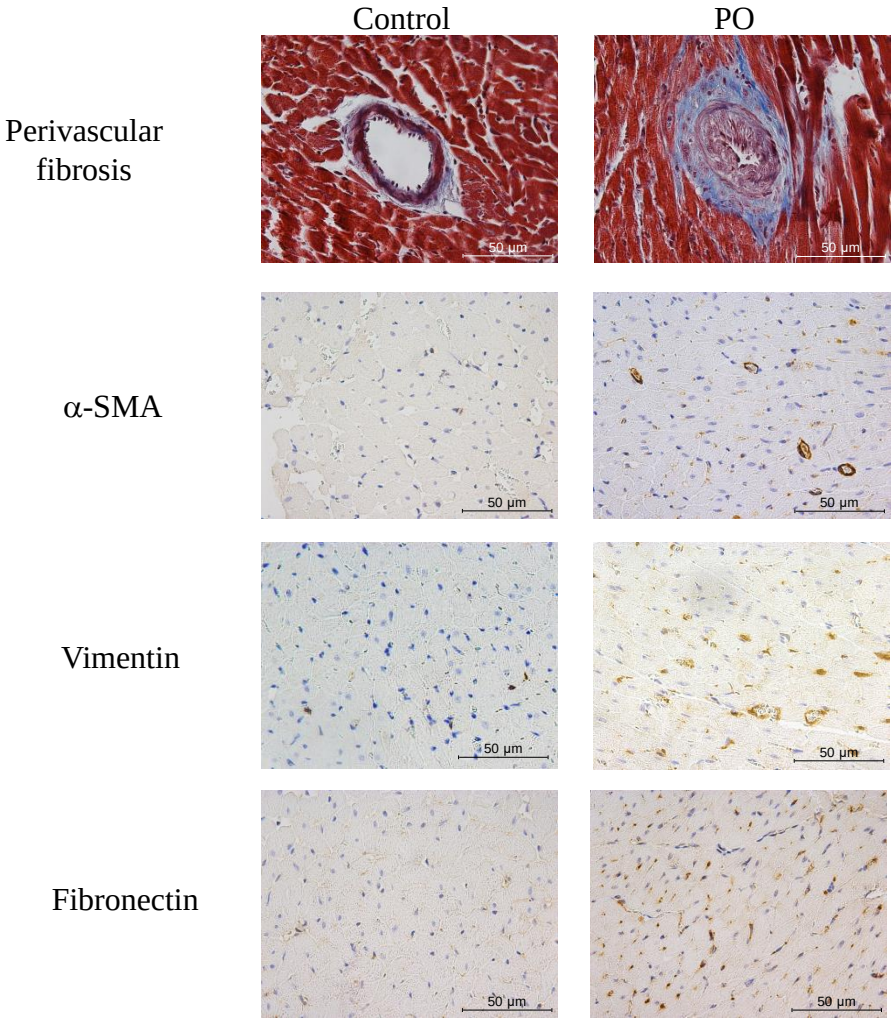


Figure 6G - TRAF6 – 60 kDa

Figure 6G - AP-1 – 39 kDa

Supplemental Figure 11



Supplemental Figure 12