

Western Blot Overview

Cardiomyocyte NLRP3-inflammasome and Calcium/Calmodulin-dependent Kinase II Signaling Create a Cellular Substrate for Post-operative Atrial Fibrillation

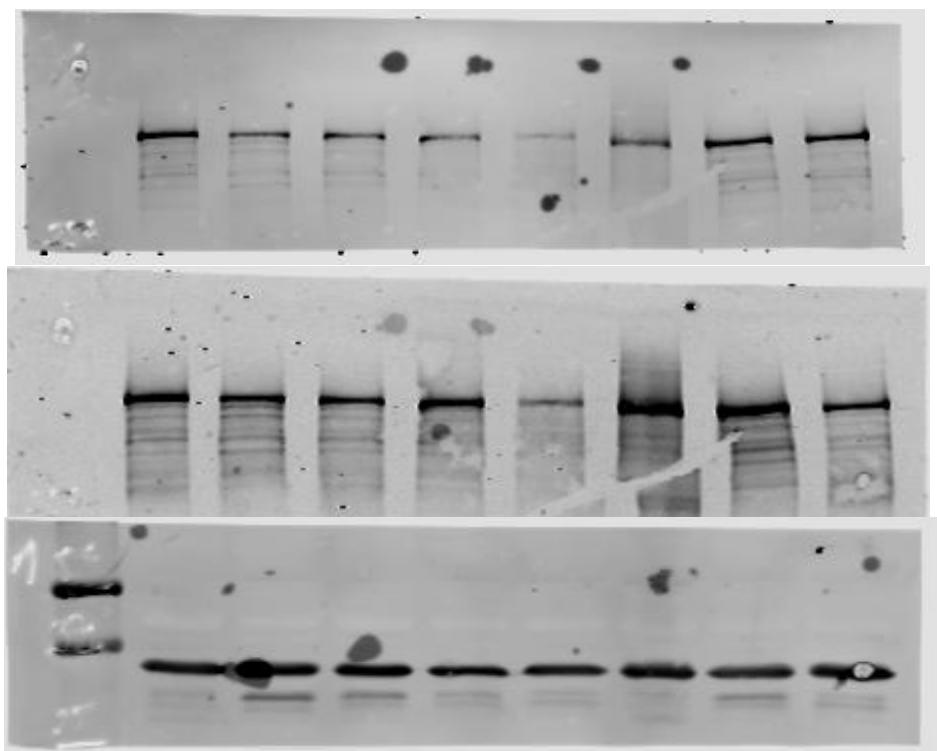
Jordi Heijman, PhD[#]; Phina Muna, PhD[#]; Tina Veleva, MD; Cristina E. Molina, PhD; Henry Sutanto, MD, MSc; Marcel Tekook, PhD; Qiongling Wang, PhD; Issam H. Abu-Taha, PhD; Marcel Gorka; Stephan Künzel, MD; Ali El-Armouche, MD; Hermann Reichenspurner, MD, PhD; Markus Kamler, MD; Viacheslav Nikolaev, PhD; Ursula Ravens, MD; Na Li, PhD; Stanley Nattel, MD; Xander H.T. Wehrens, MD, PhD; Dobromir Dobrev, MD

Note: Given the limited availability of human atrial tissue samples, most gels were physically cut to enable incubation with different antibodies against proteins with distinct molecular weights. These fragments are shown in the subsequent slides. Unless otherwise indicated, samples are loaded in pairs: two Ctl samples followed by two POAF samples, etc. with molecular weight markers in the first and/or last lanes. Only samples that were used in the representative blots and/or quantitative analysis are marked.

Gel 1 / 4

Total-
RyR2

Ctl POAF POAF POAF Ctl POAF



Gel 2 / 4

Total-
RyR2

Ctl Ctl POAF POAF Ctl Ctl POAF POAF

Ser2814-
RyR2

GAPDH

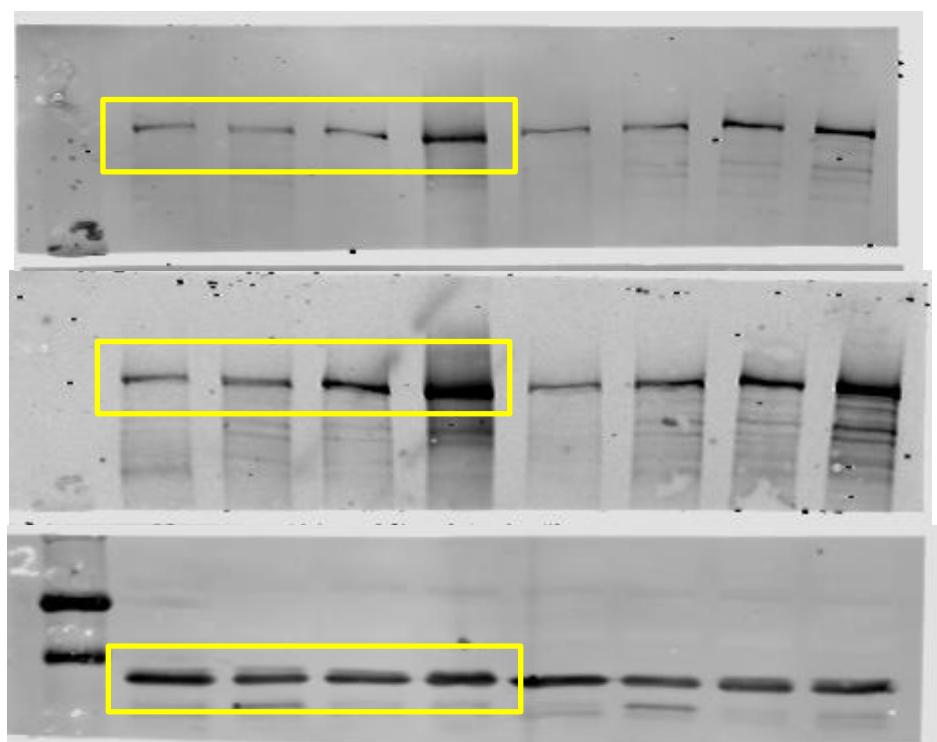
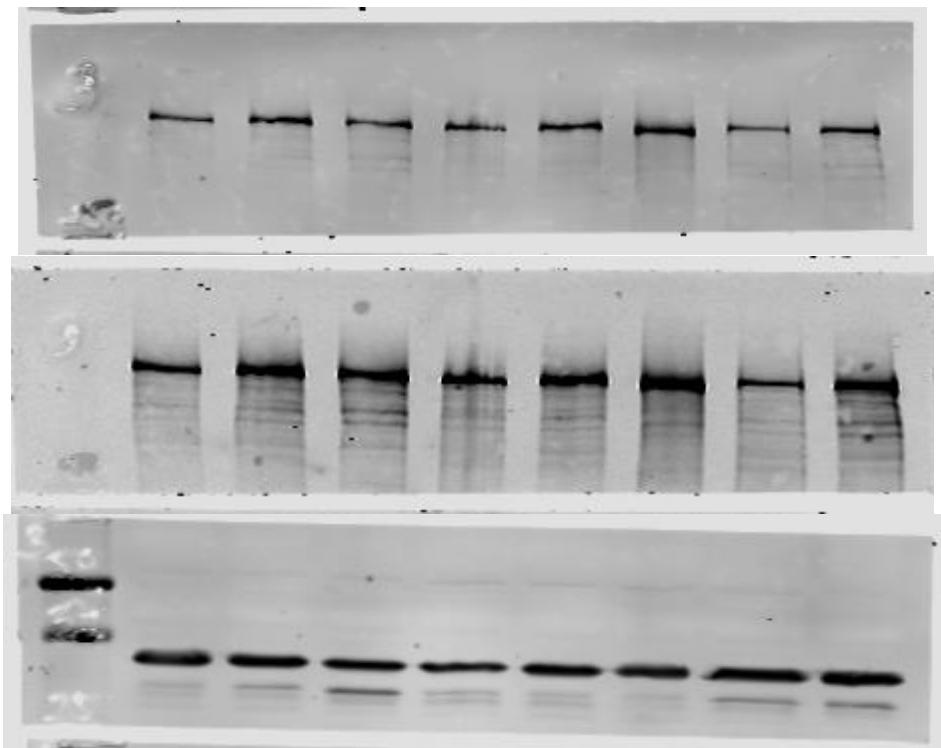


Figure 4B – Human atrial whole-tissue lysates

Gel 3 / 4

Ctl Ctl POAF POAF Ctl Ctl POAF POAF

Total-
RyR2



Gel 4 / 4

Ctl

Total-
RyR2

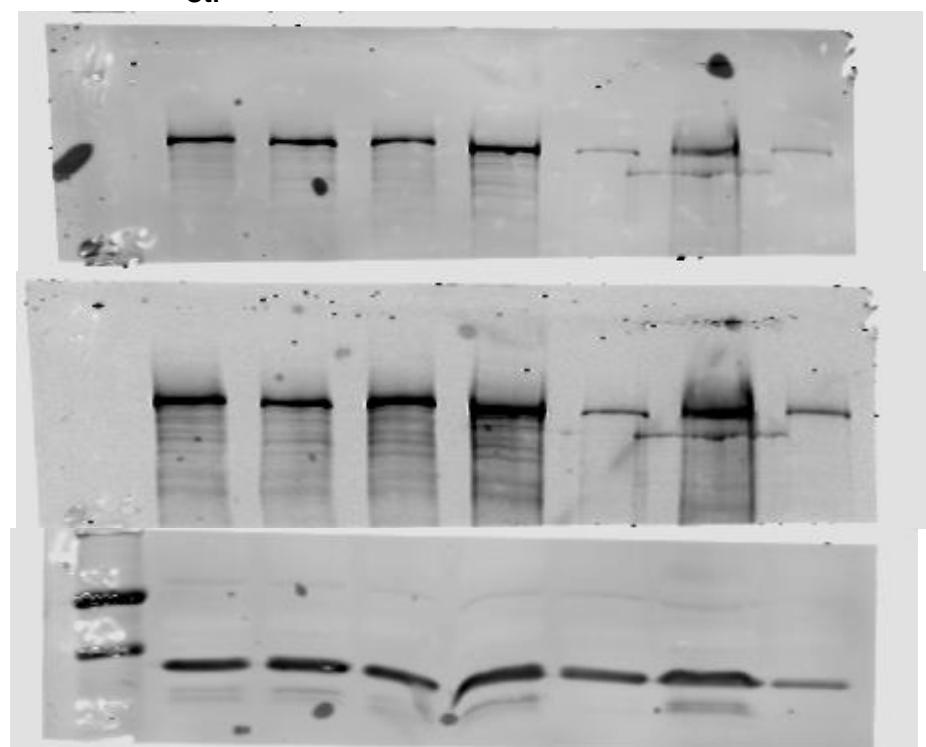
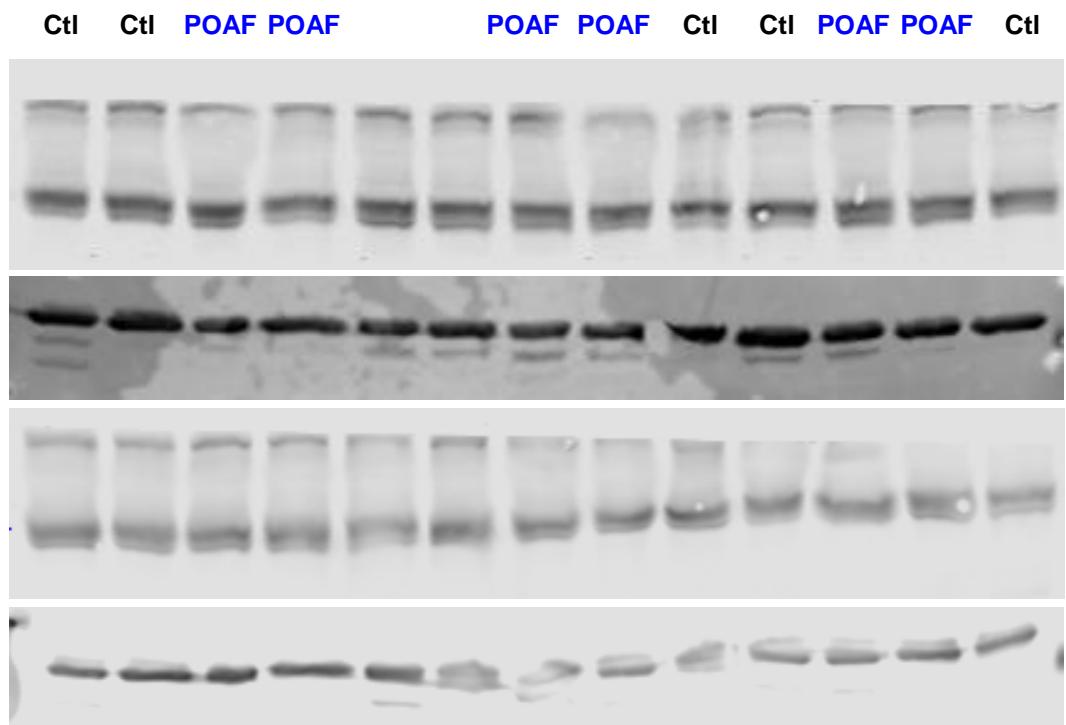


Figure 4B – Human atrial whole-tissue lysates

Gel 1 / 3



Gel 2 / 3

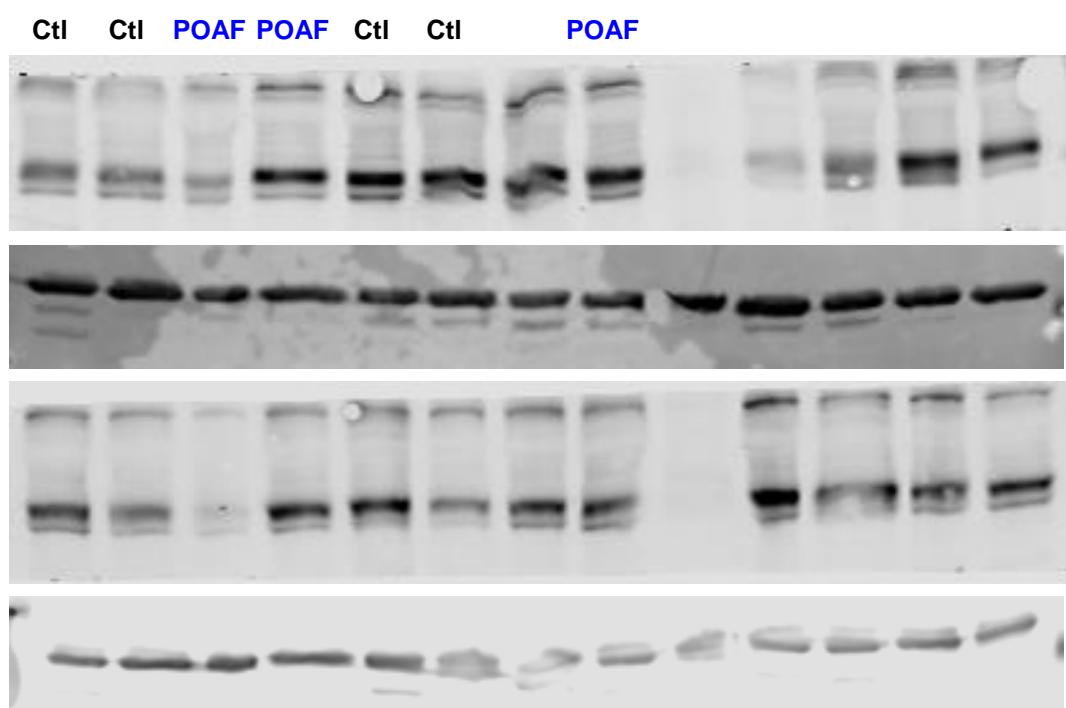
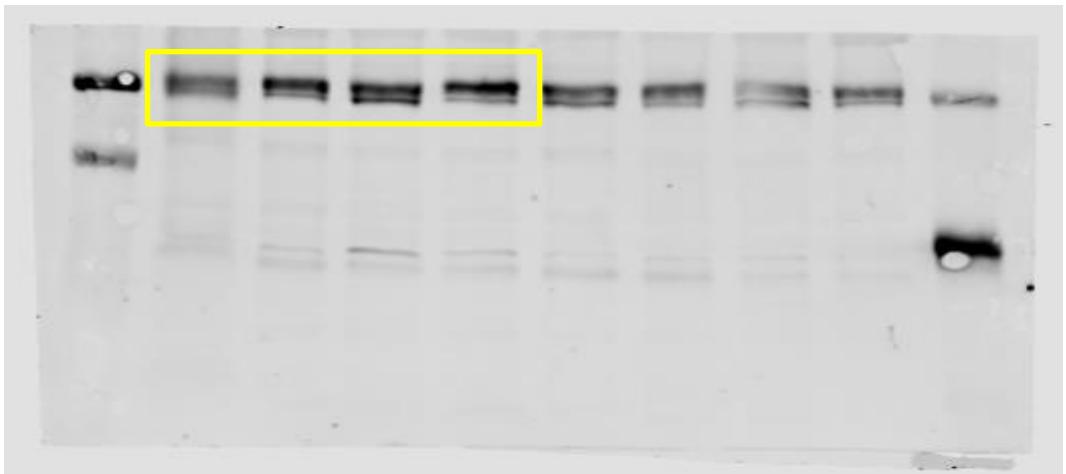


Figure 4B + Online Figure X – Human atrial whole-tissue

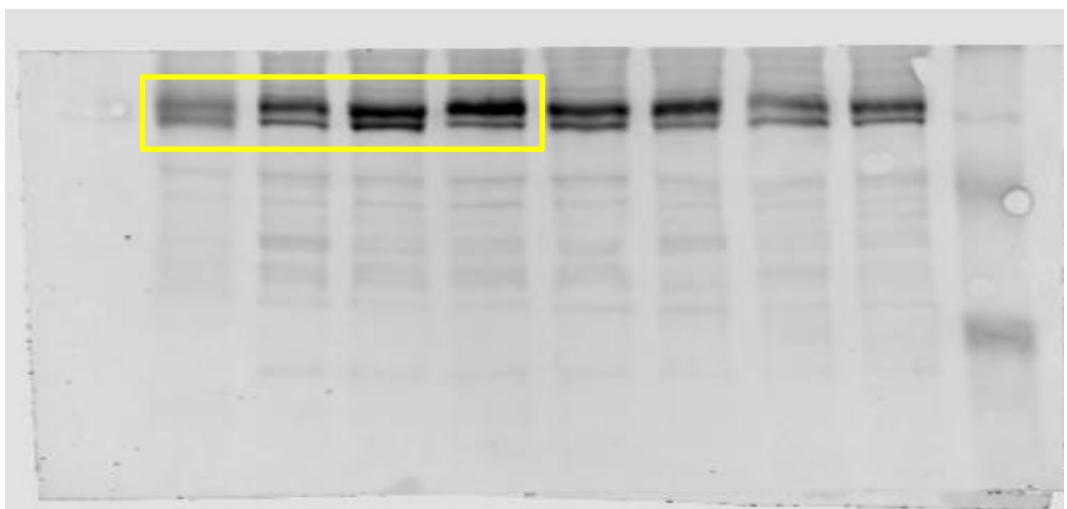
Gel 3 / 3

Ctl Ctl POAF POAF

Total-
CaMKII δ



Thr287-
CaMKII δ



GAPDH

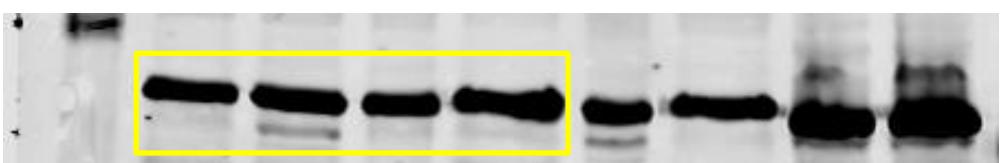
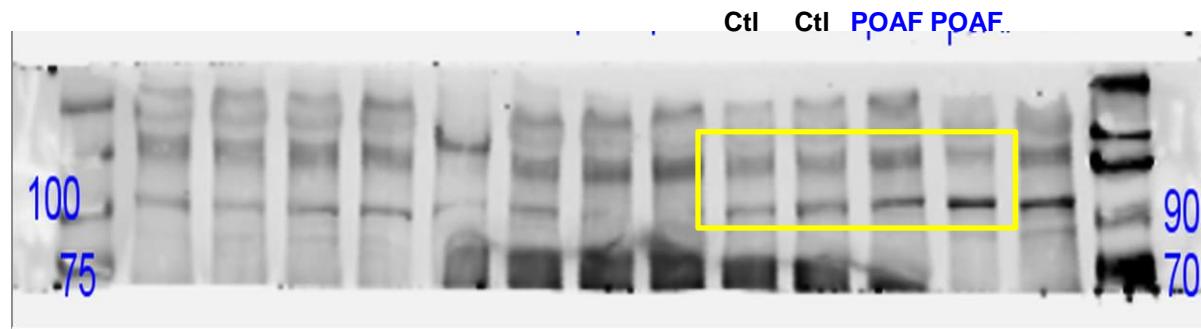


Figure 4B + Online Figure X – Human atrial whole-tissue

Gel 1 / 4



Gel 2 / 4

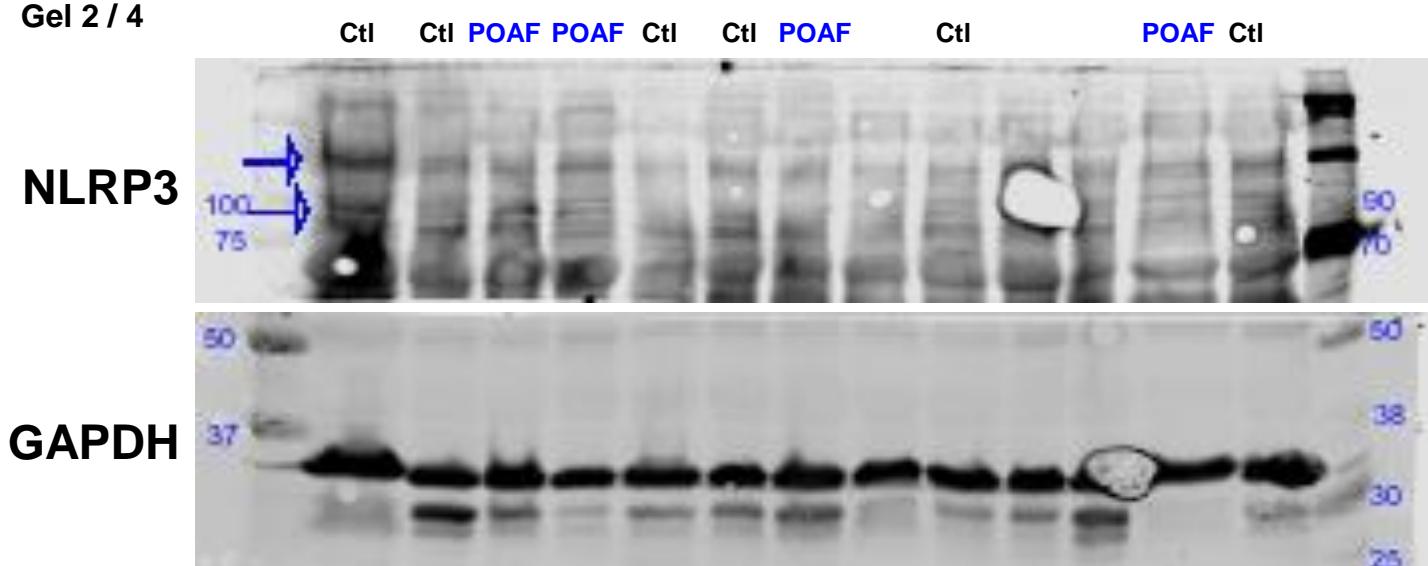


Figure 5A – Human atrial whole-tissue lysates

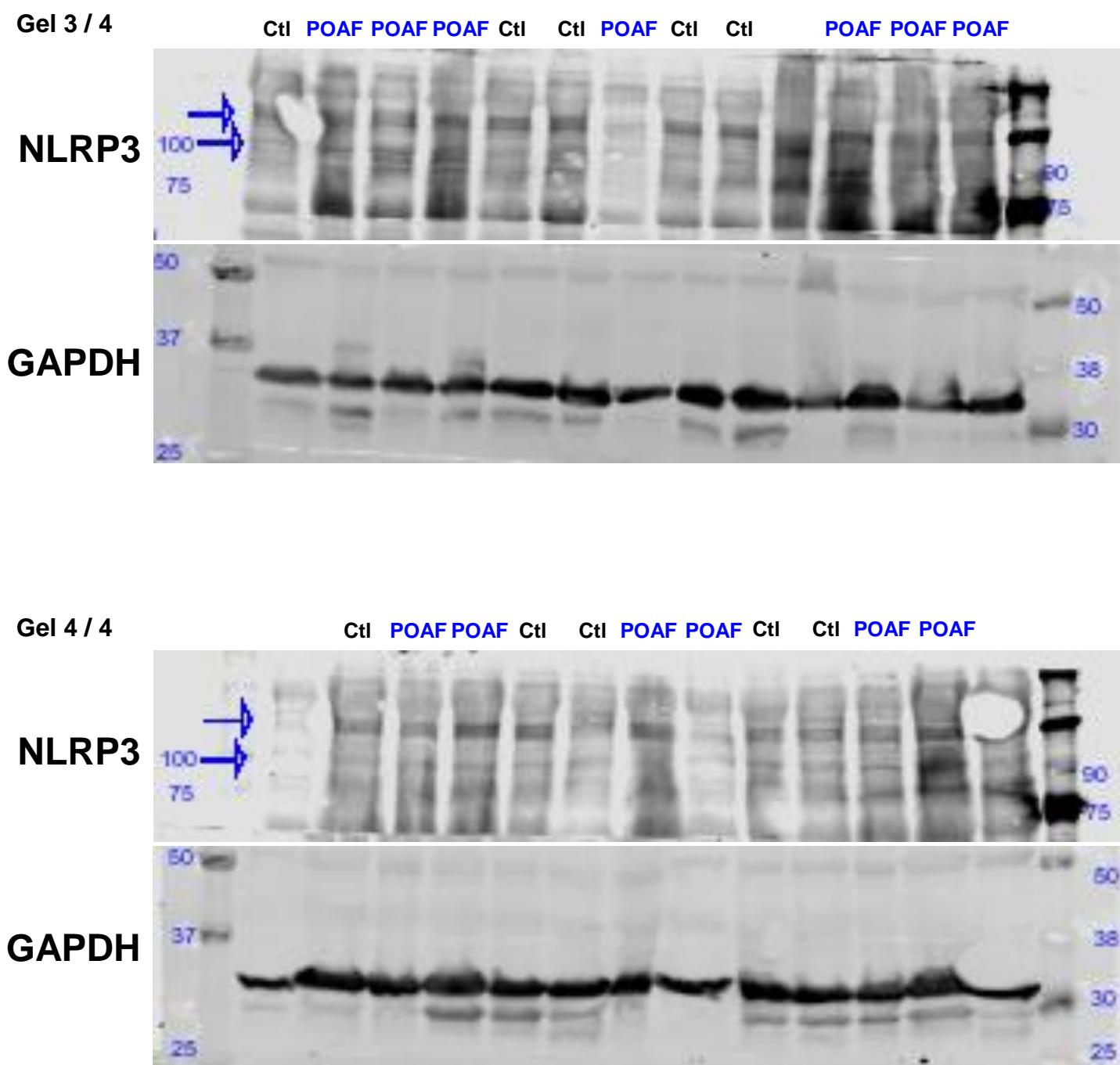
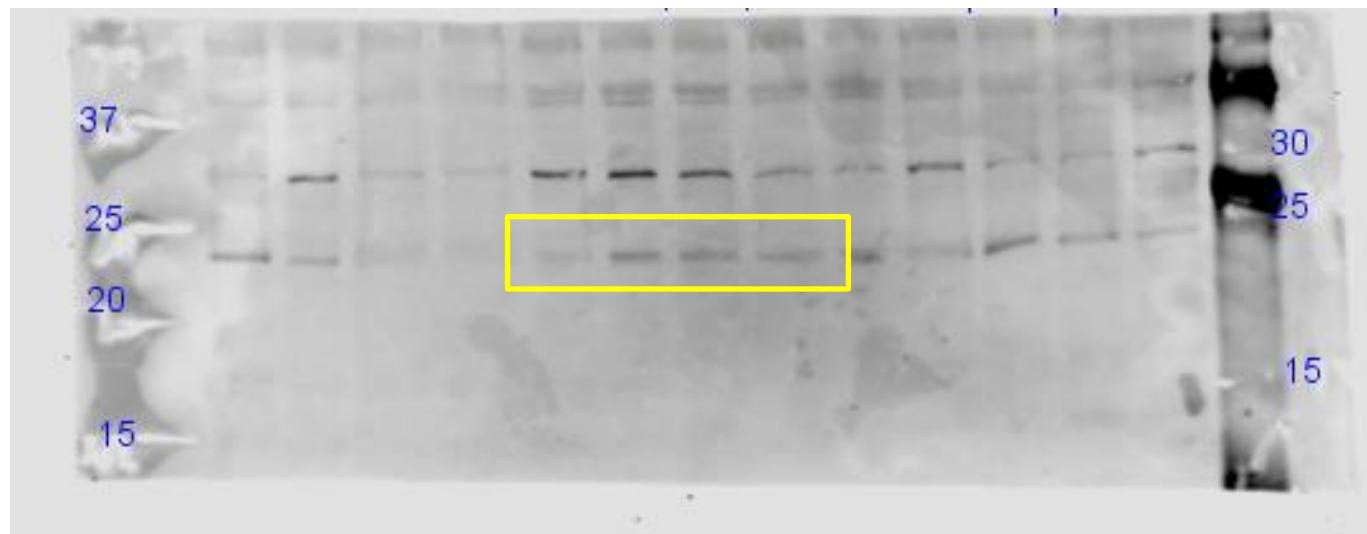


Figure 5A – Human atrial whole-tissue lysates

ASC

Gel 1 / 2

Ctl POAF Ctl Ctl POAF POAF Ctl Ctl POAF POAF Ctl



GAPDH

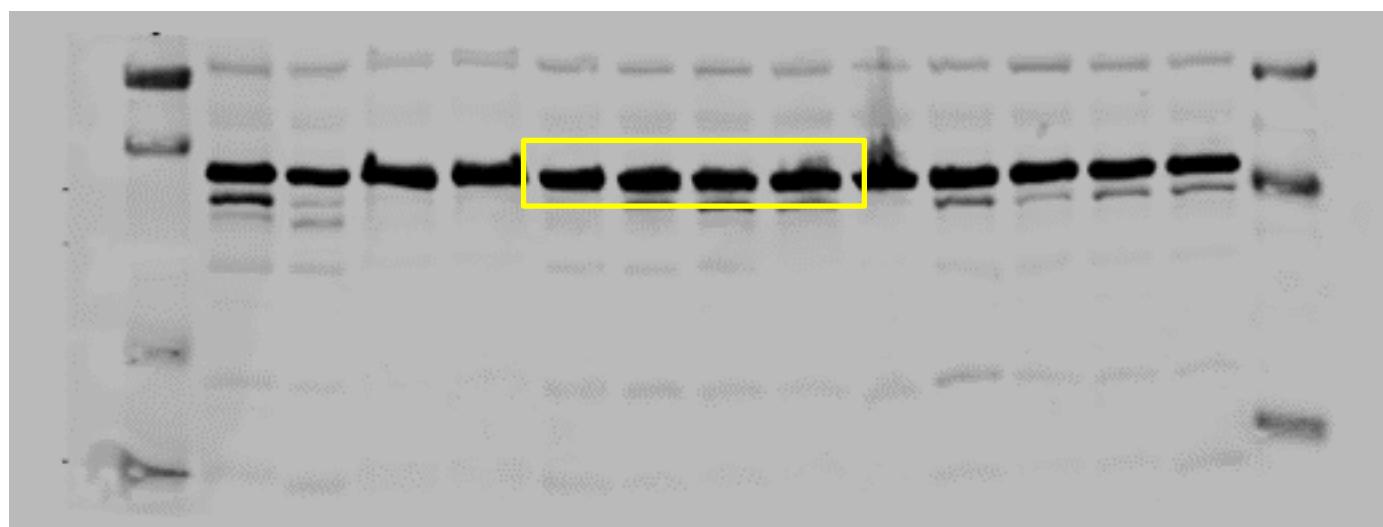
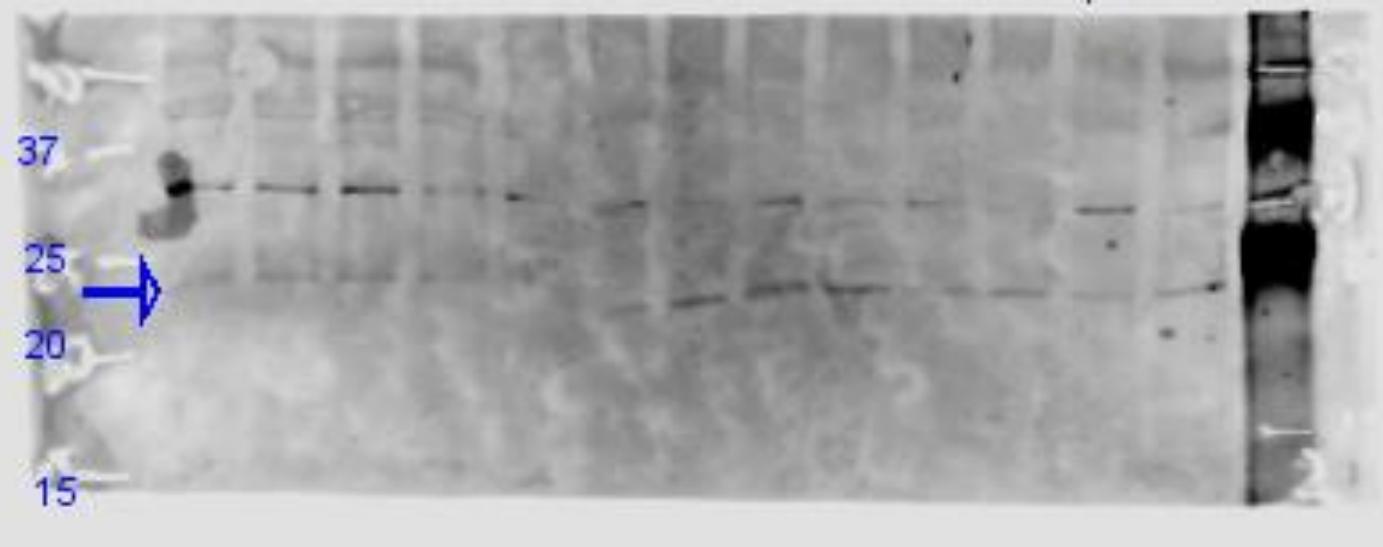


Figure 5A – Human atrial whole-tissue lysates

ASC

Gel 2 / 2

Ctl Ctl POAF POAF POAF POAF Ctl POAF POAF



GAPDH

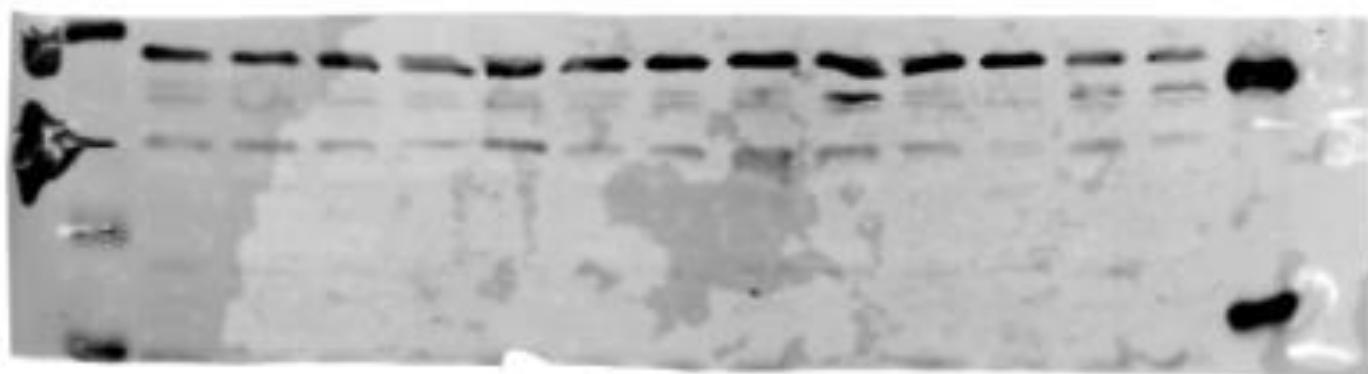


Figure 5A – Human atrial whole-tissue lysates

Pro-Caspase-1

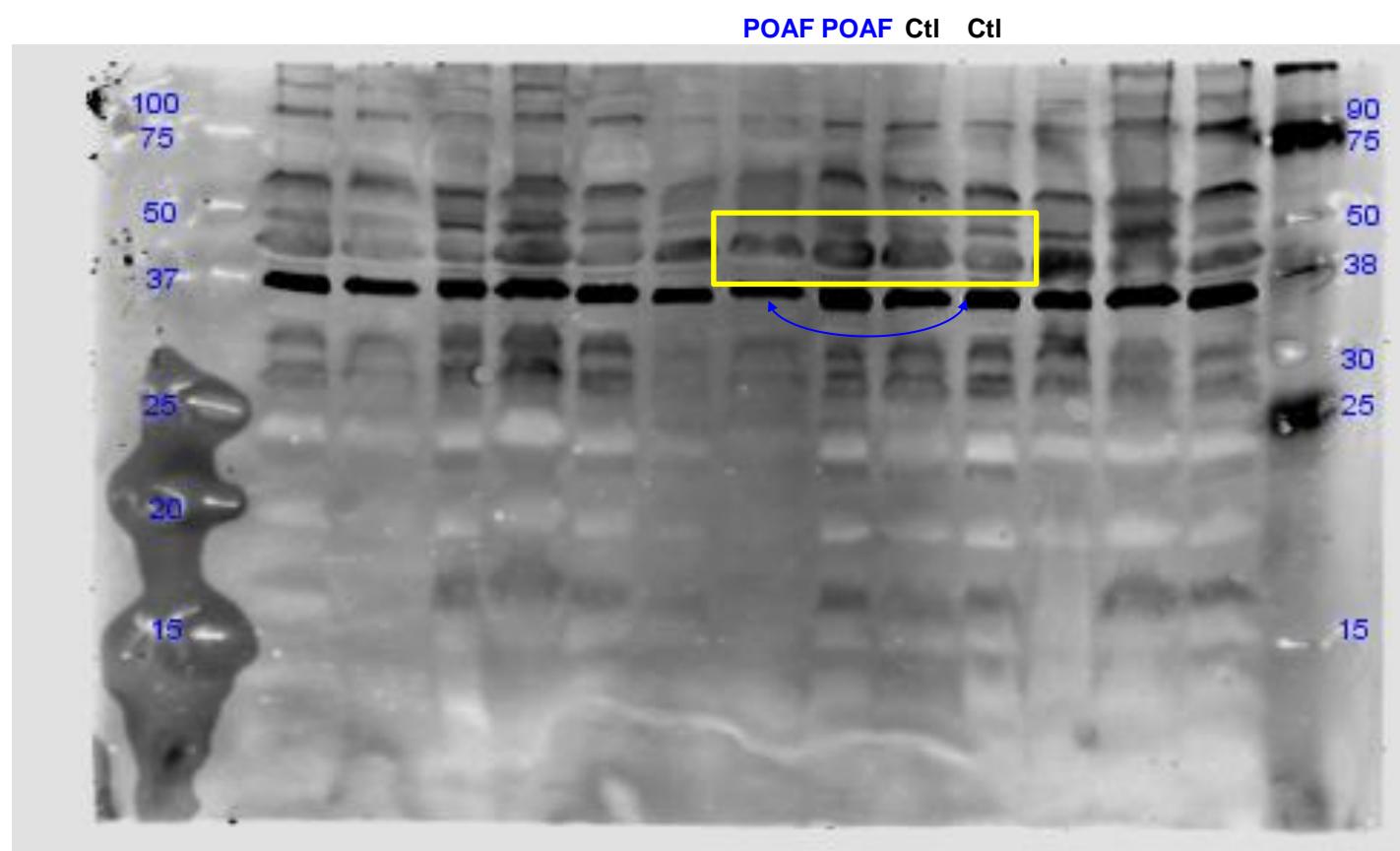
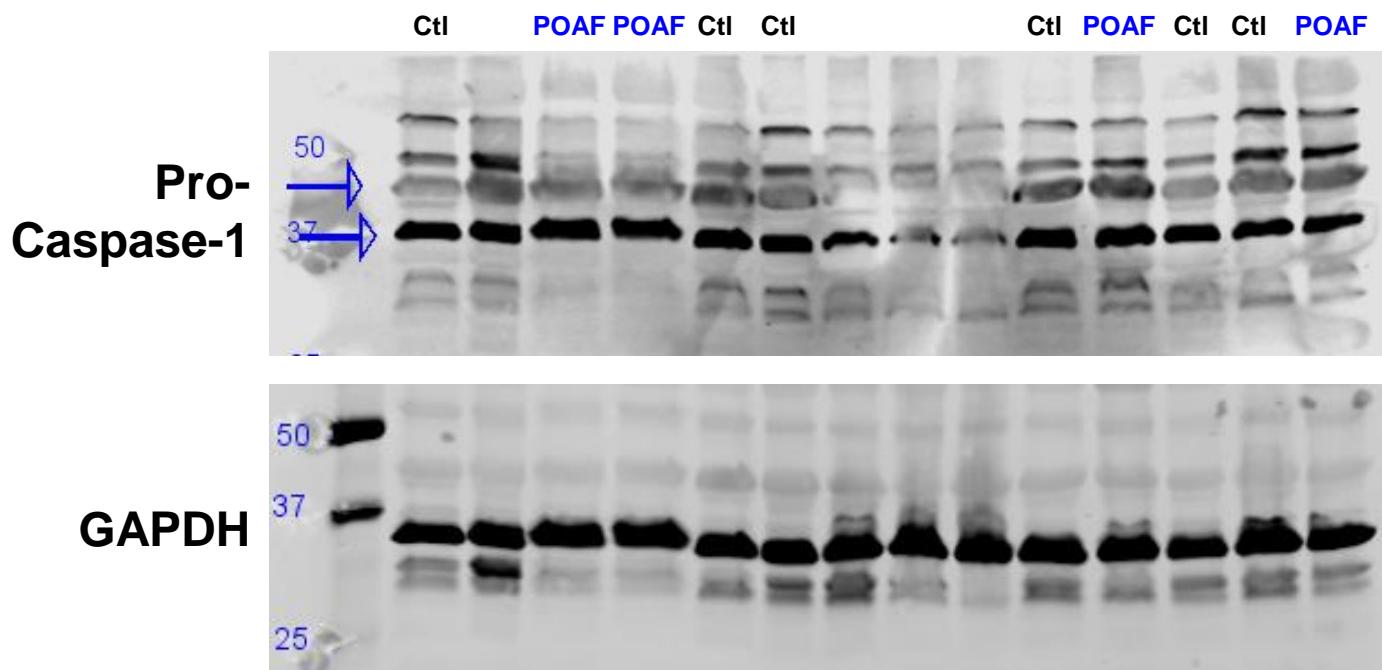


Figure 5A – Human atrial whole-tissue lysates

Gel 2 / 3



Gel 3 / 3

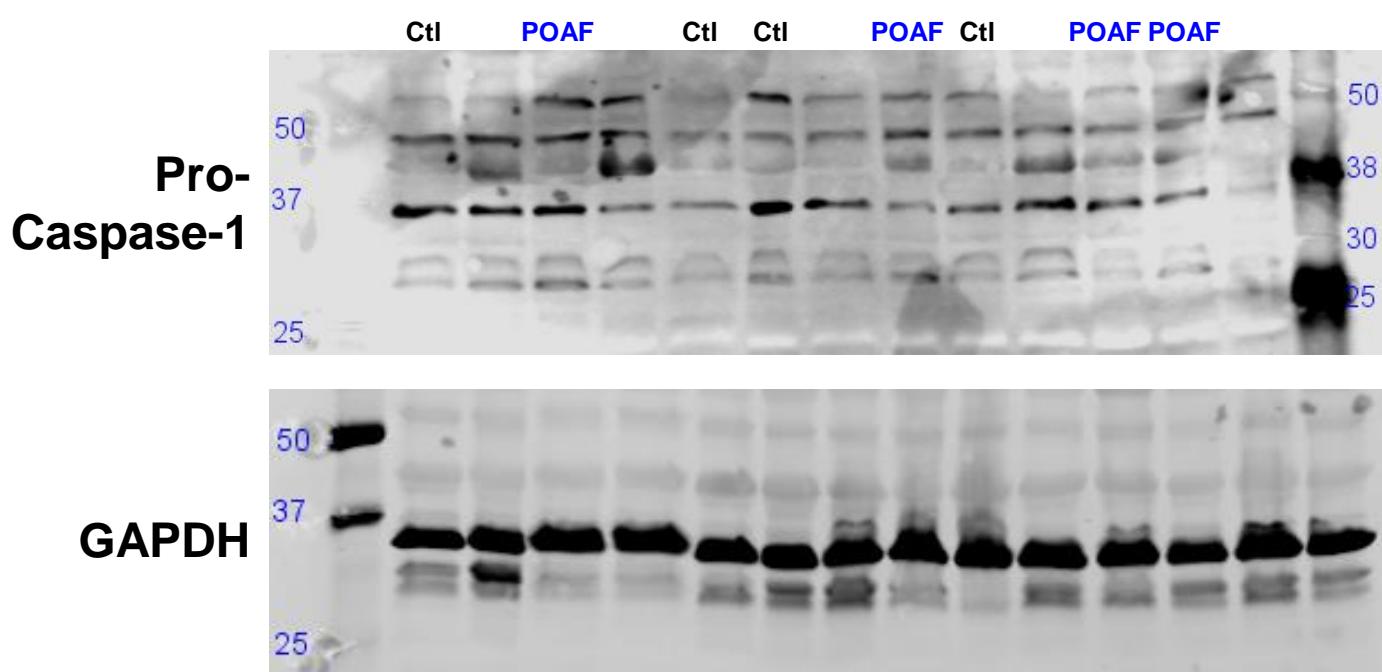
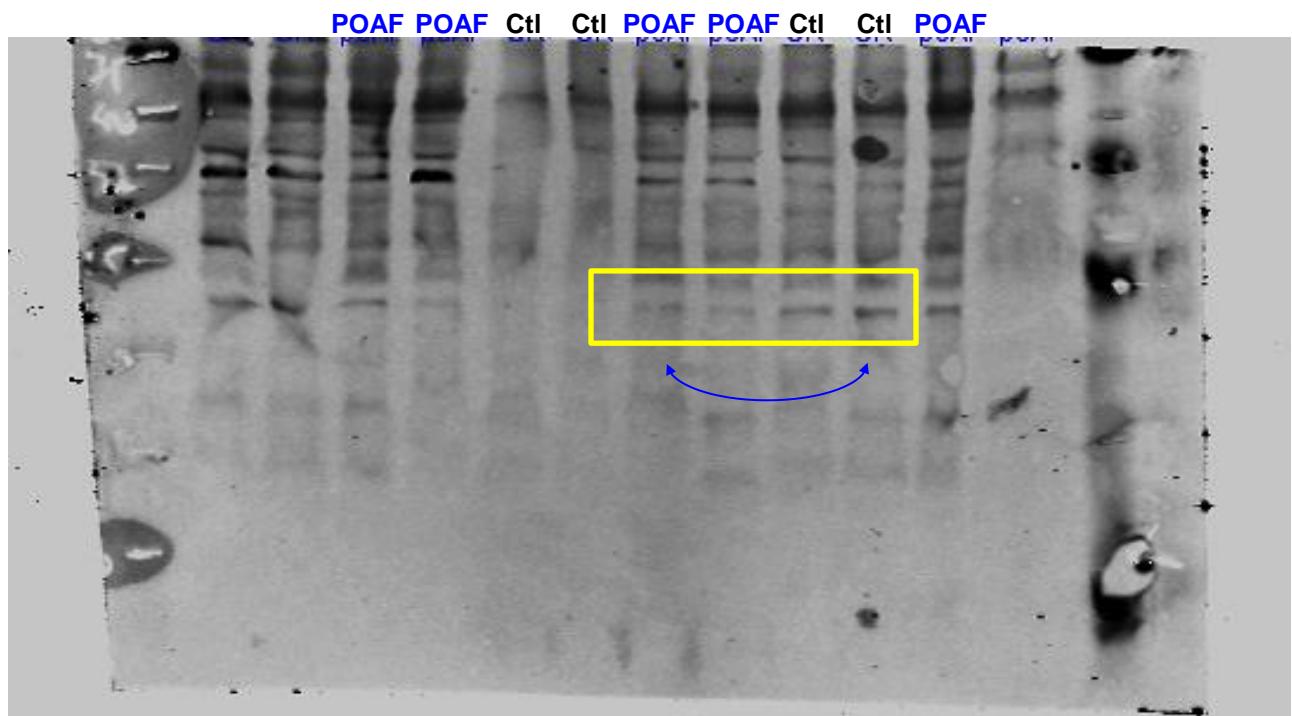
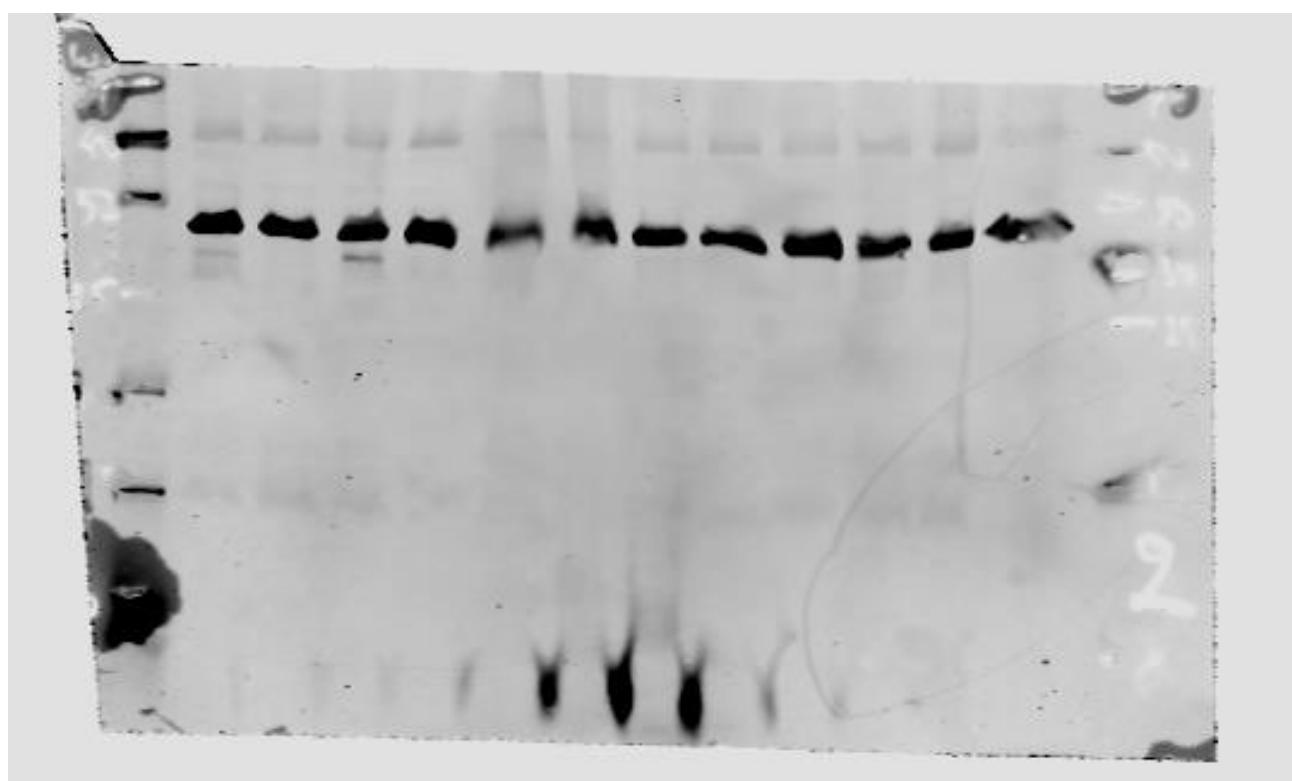
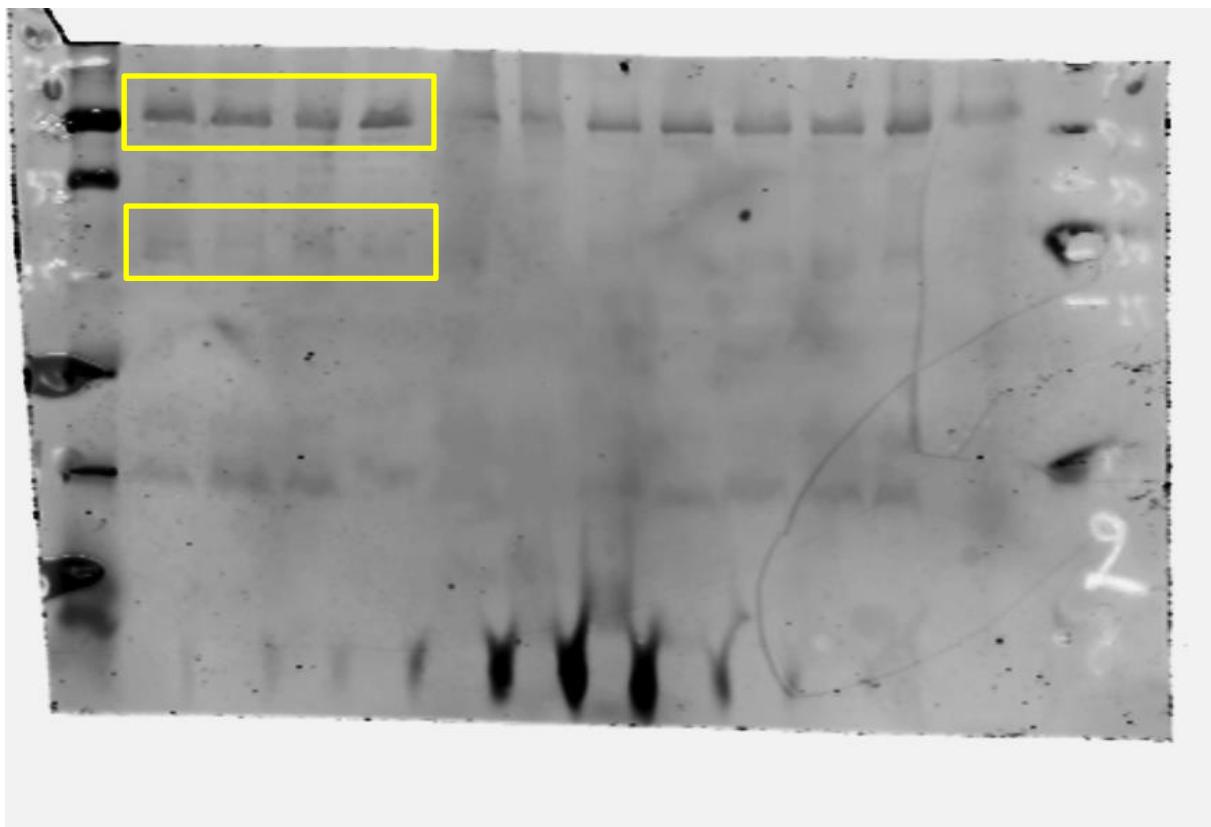
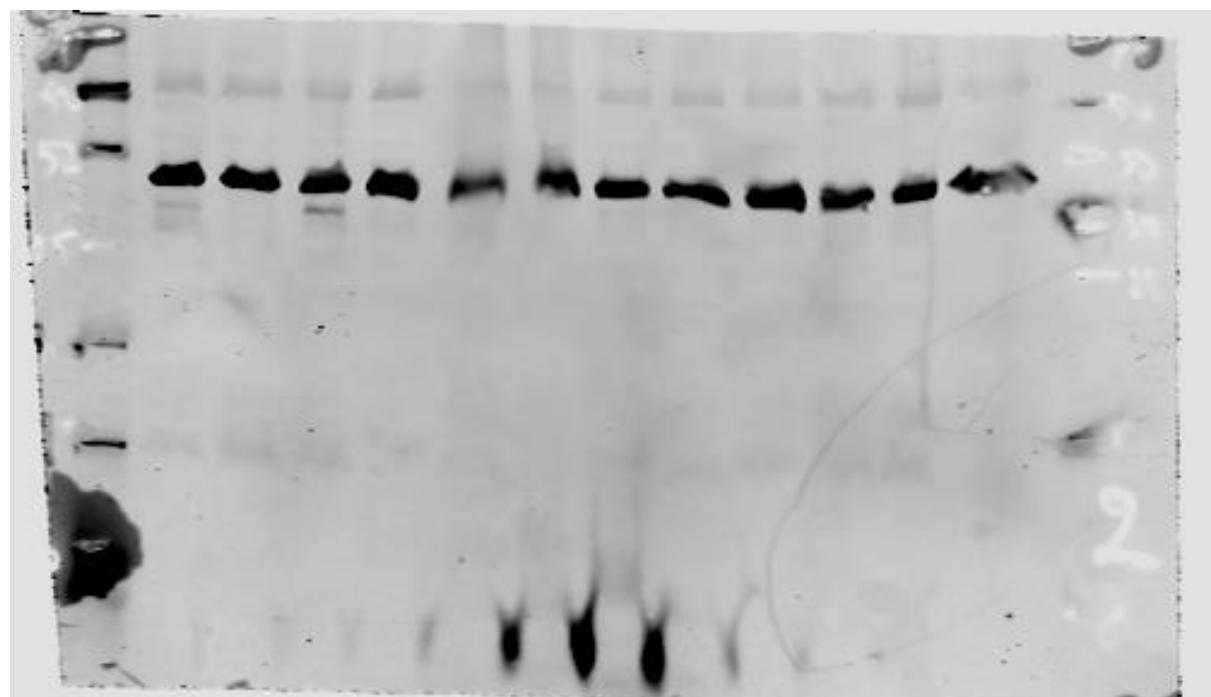


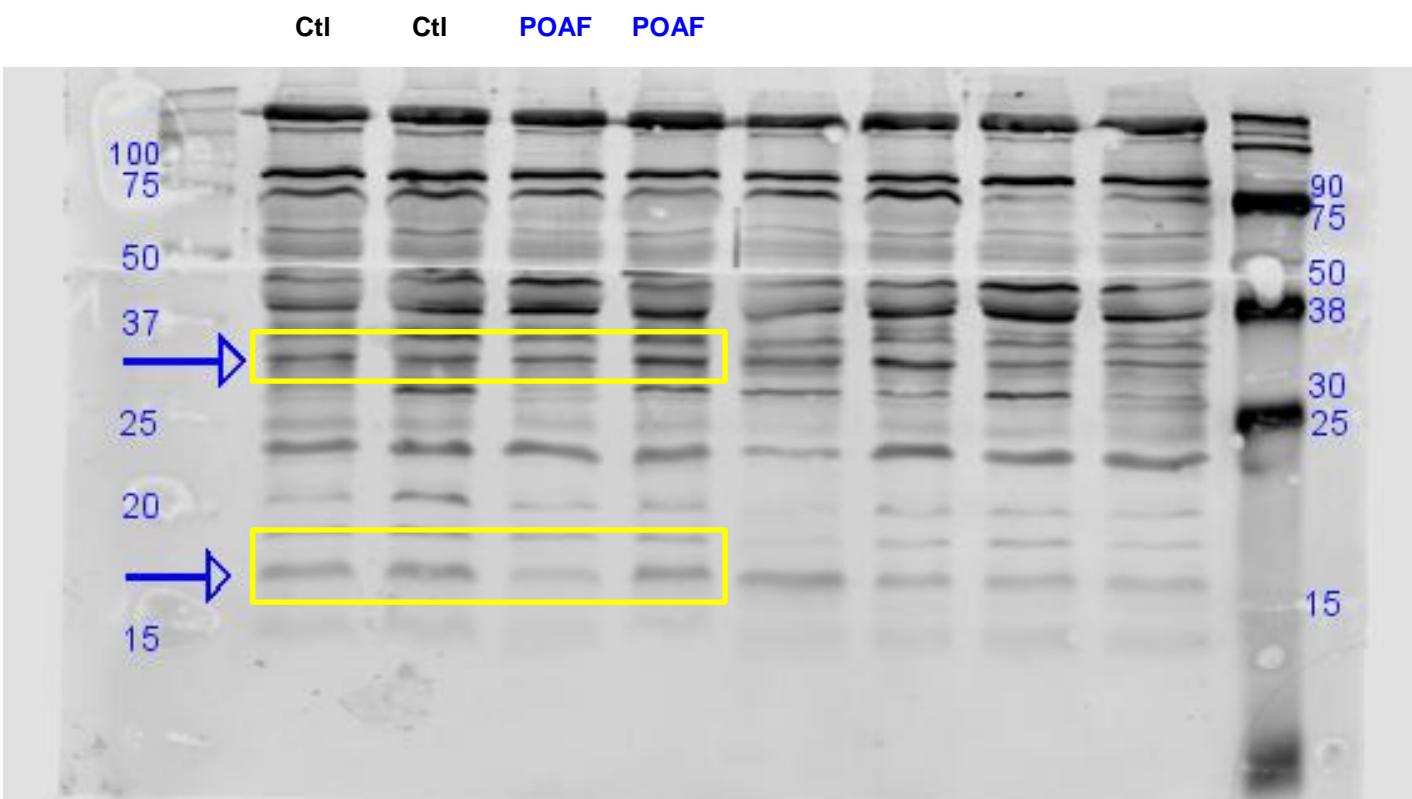
Figure 5A – Human atrial whole-tissue lysates

Caspase-1-p20**GAPDH****Figure 5A – Human atrial whole-tissue lysates**

Gasdermin-D (full-length + N-terminal fragment)

Ctl Ctl POAF POAF Ctl Ctl POAF POAF Ctl POAF POAF

**GAPDH****Figure 5A – Human atrial whole-tissue lysates**

(Pro-)Interleukin-1 β 

GAPDH

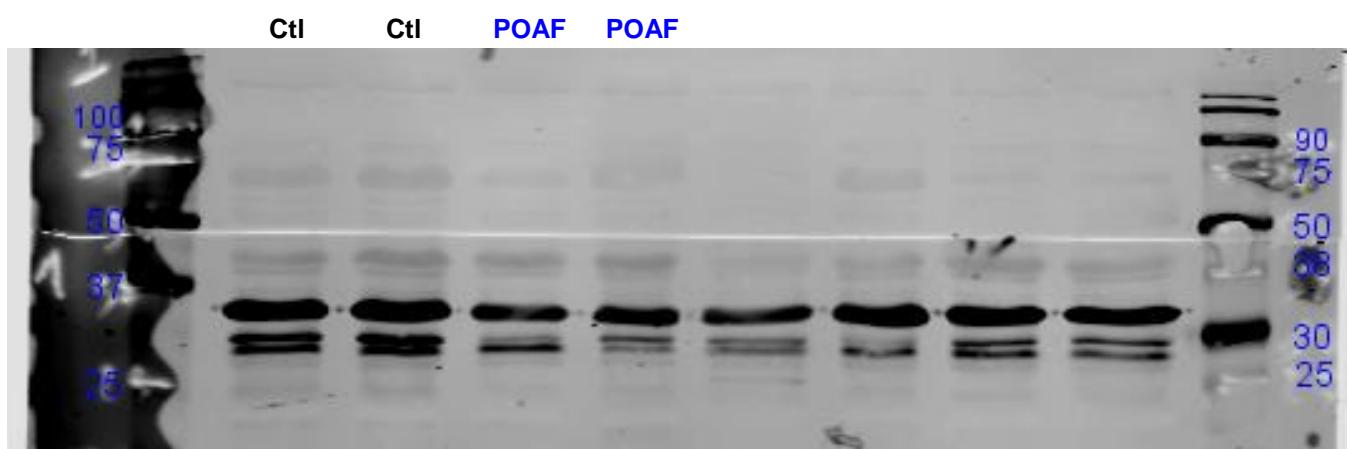
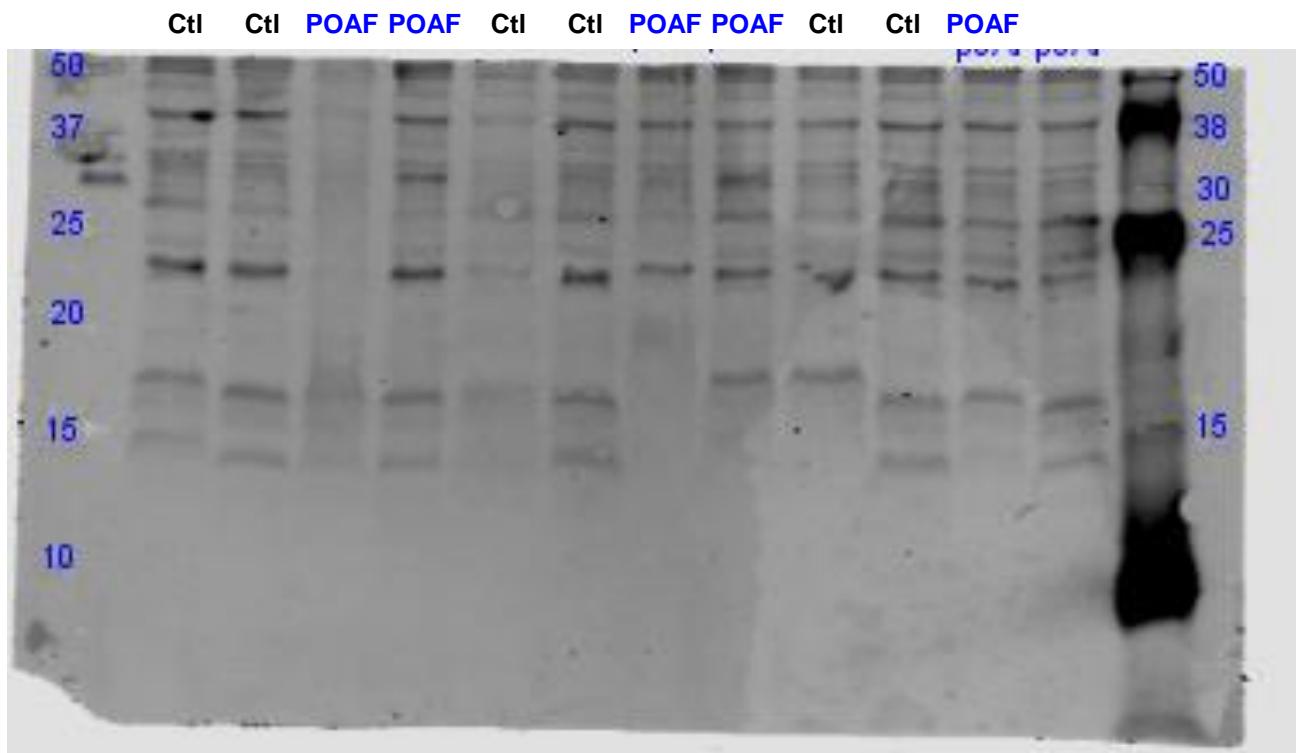


Figure 5A – Human atrial whole-tissue lysates

(Pro-)Interleukin-1 β 

GAPDH

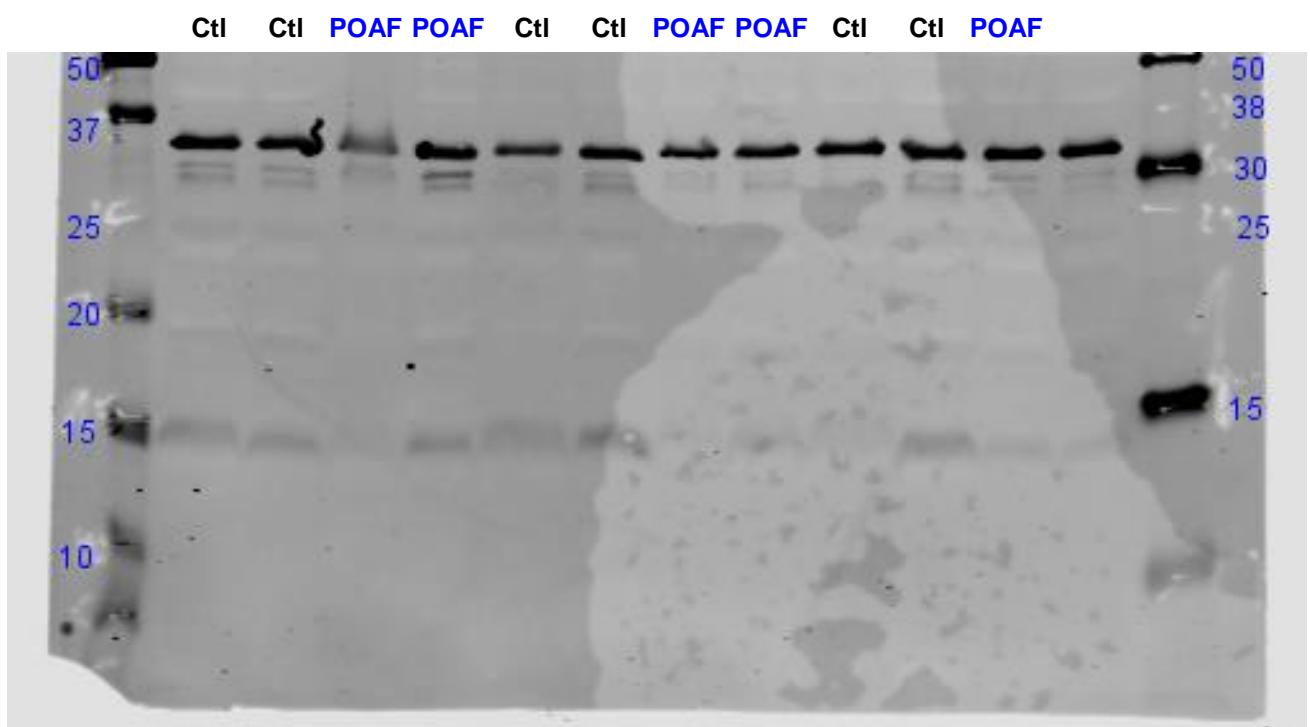
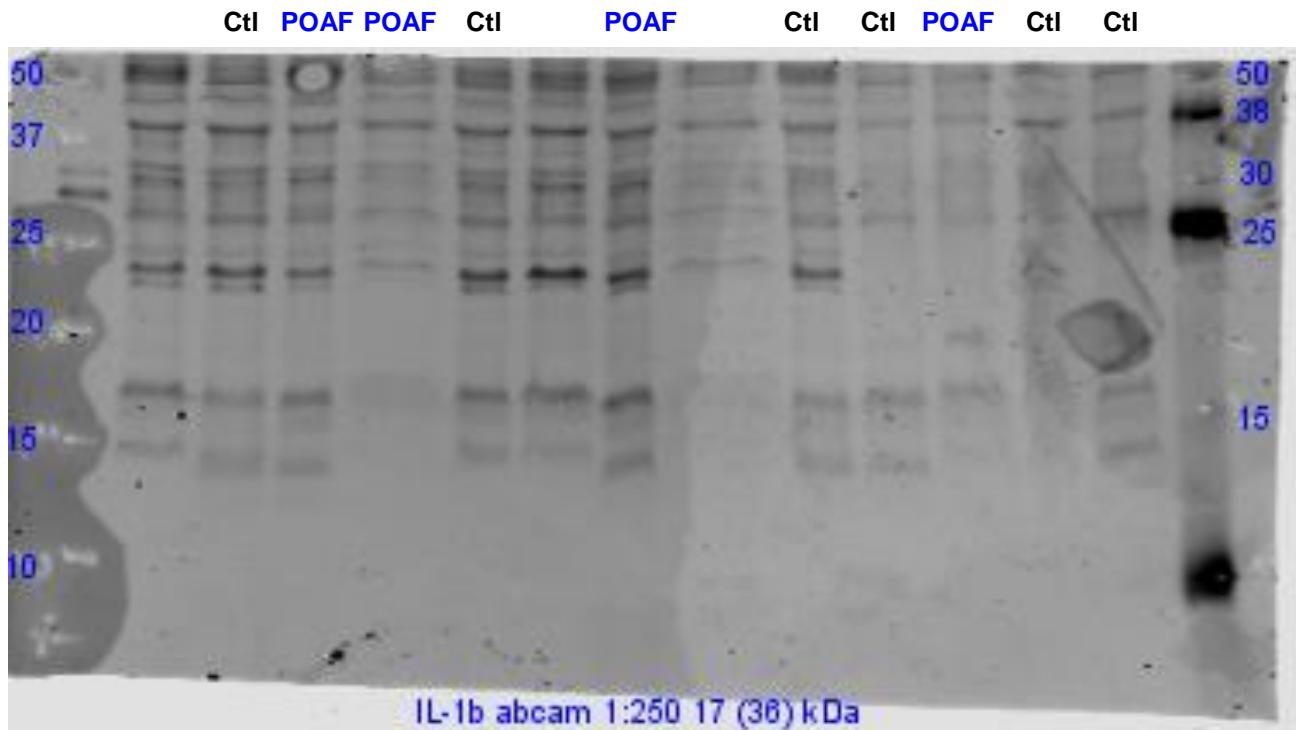


Figure 5A – Human atrial whole-tissue lysates

(Pro-)Interleukin-1 β 

GAPDH

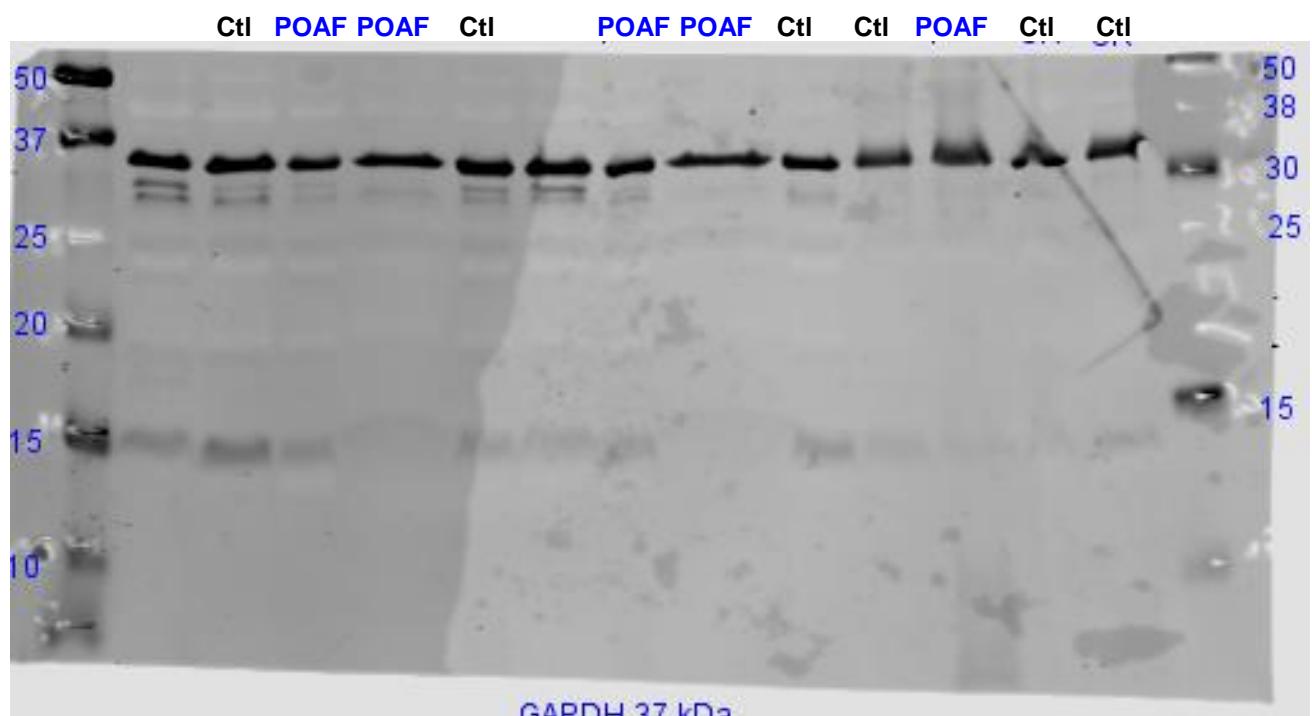
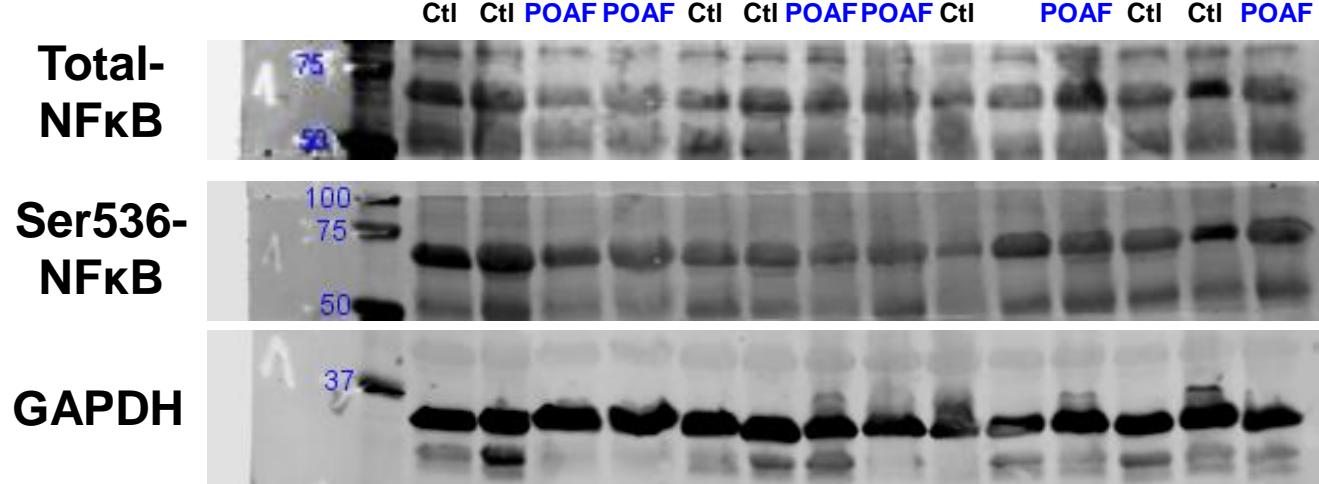
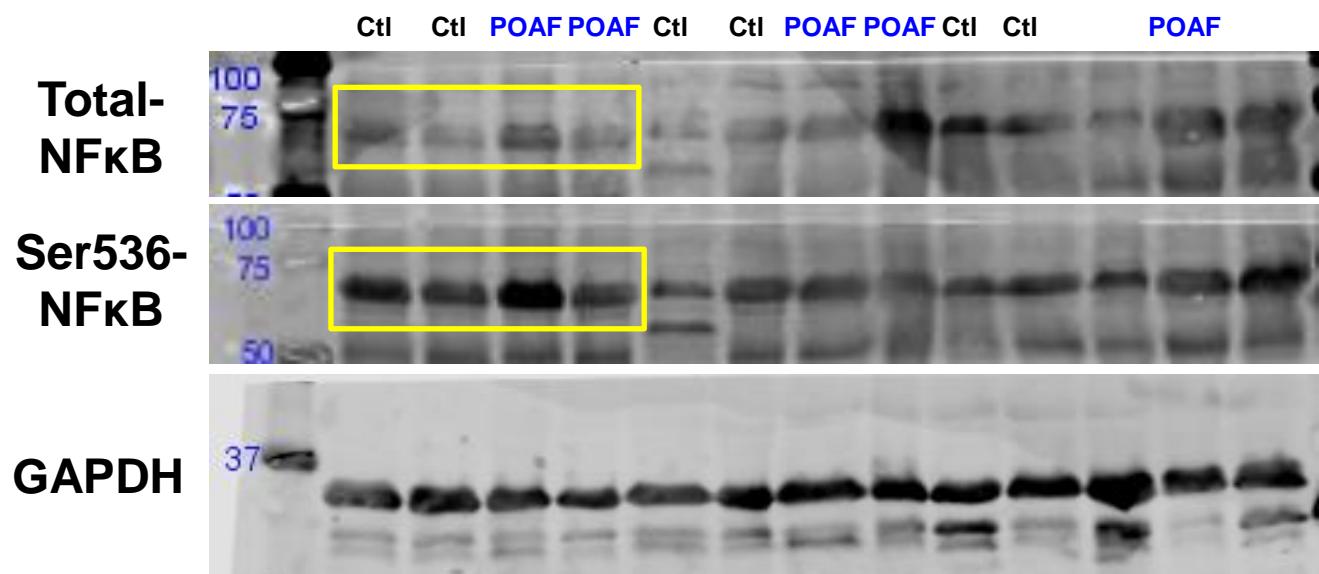


Figure 5A – Human atrial whole-tissue lysates

Gel 1 / 3



Gel 2 / 3



Gel 3 / 3

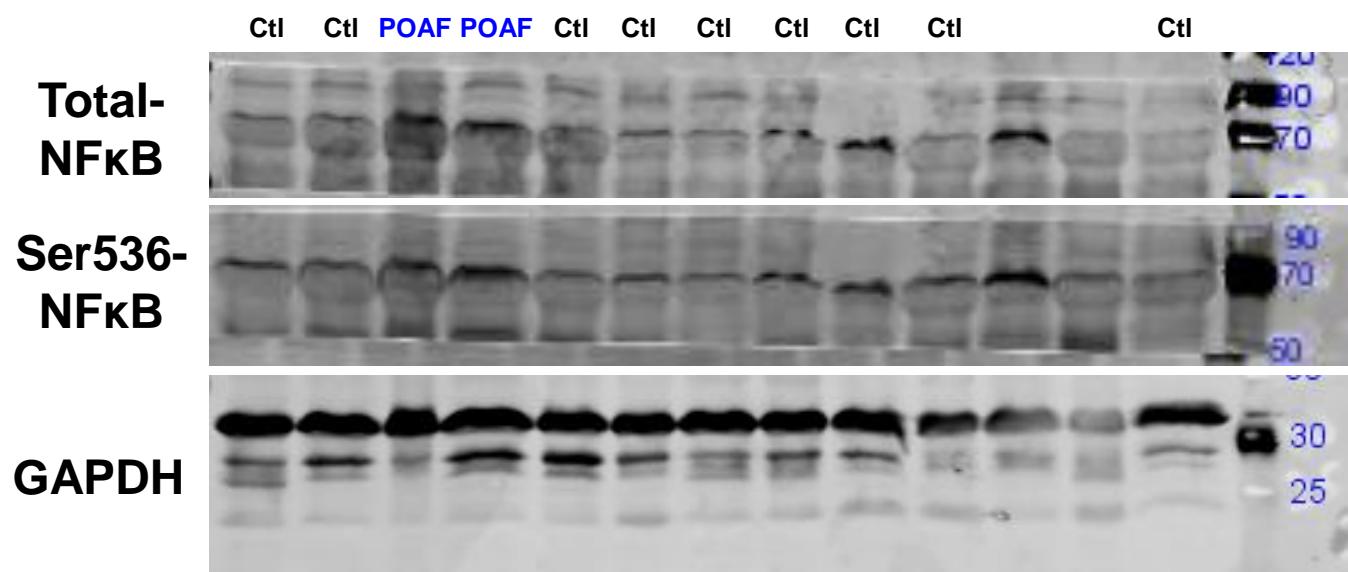
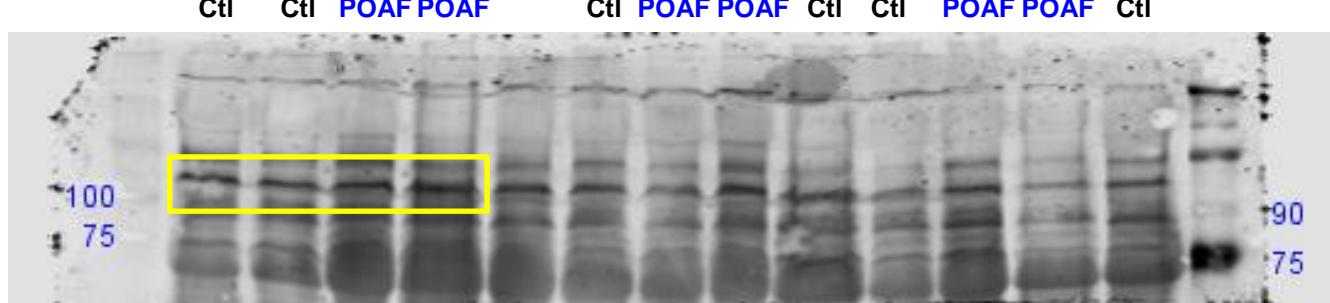


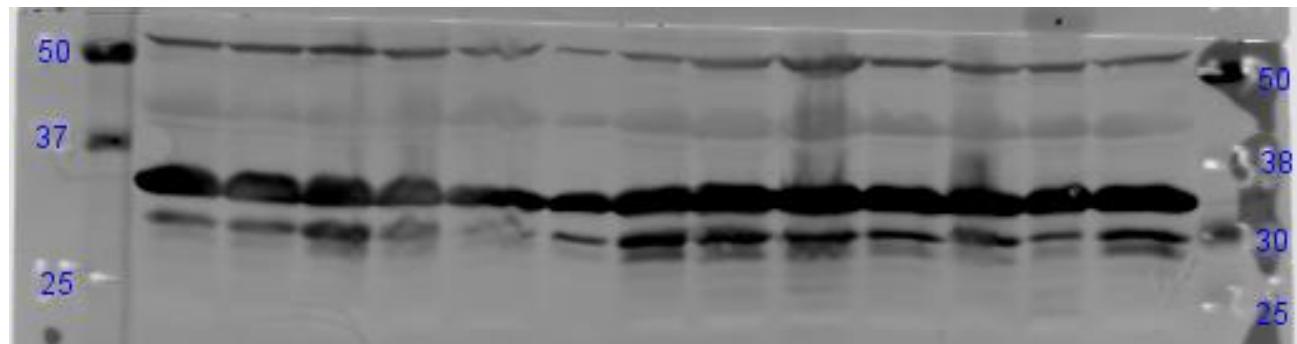
Figure 5B – Human atrial whole-tissue lysates

Gel 1 / 2

TLR4

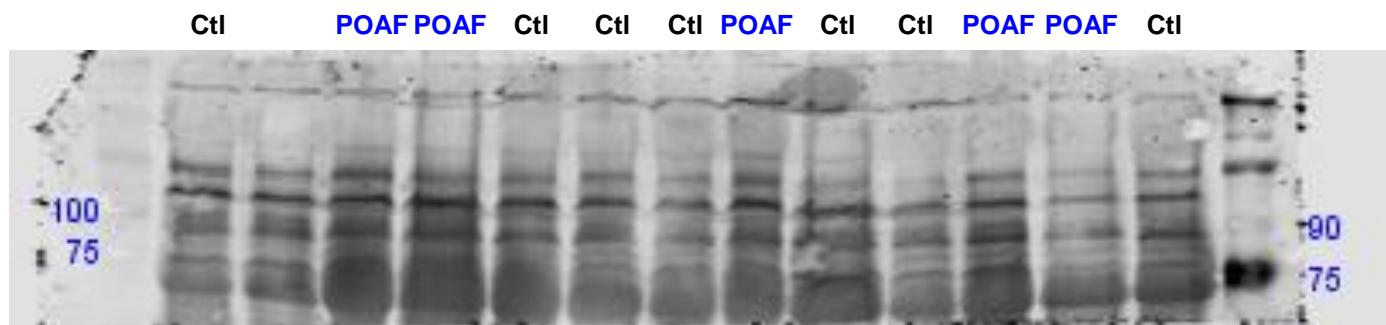


GAPDH



Gel 2 / 2

TLR4



GAPDH

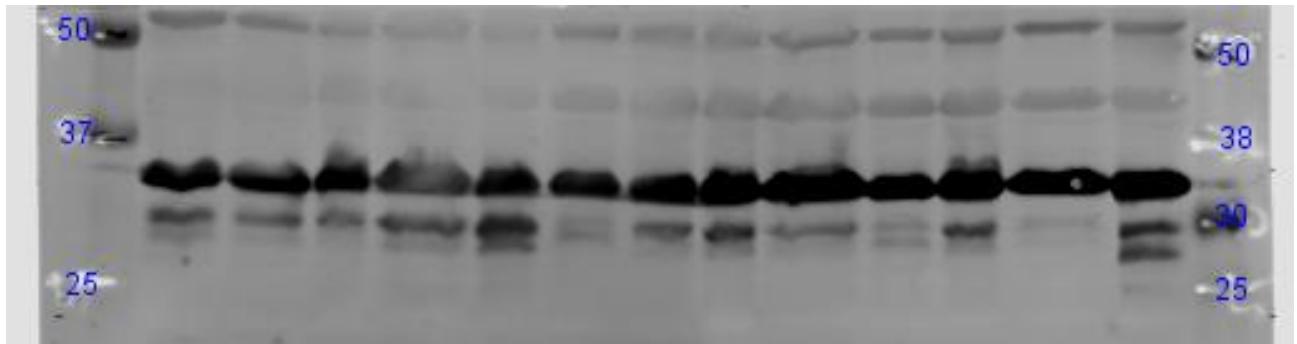
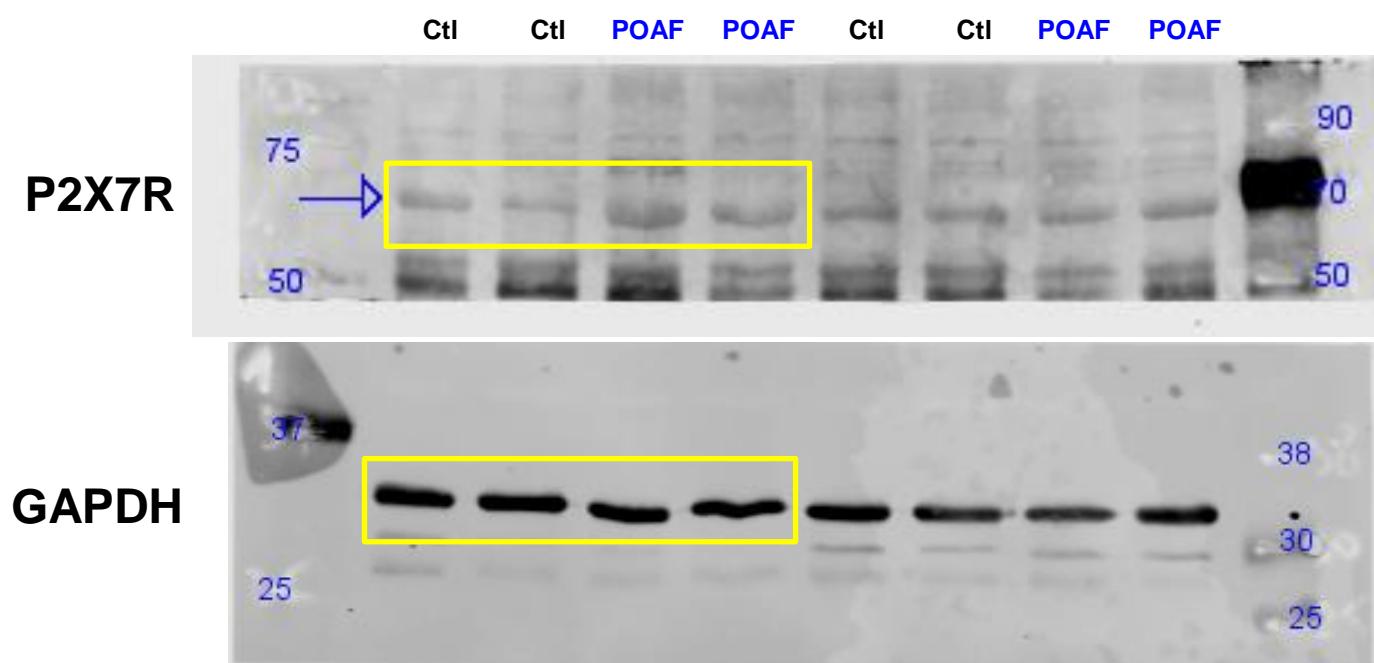


Figure 5B – Human atrial whole-tissue lysates

Gel 1 / 4



Gel 2 / 4

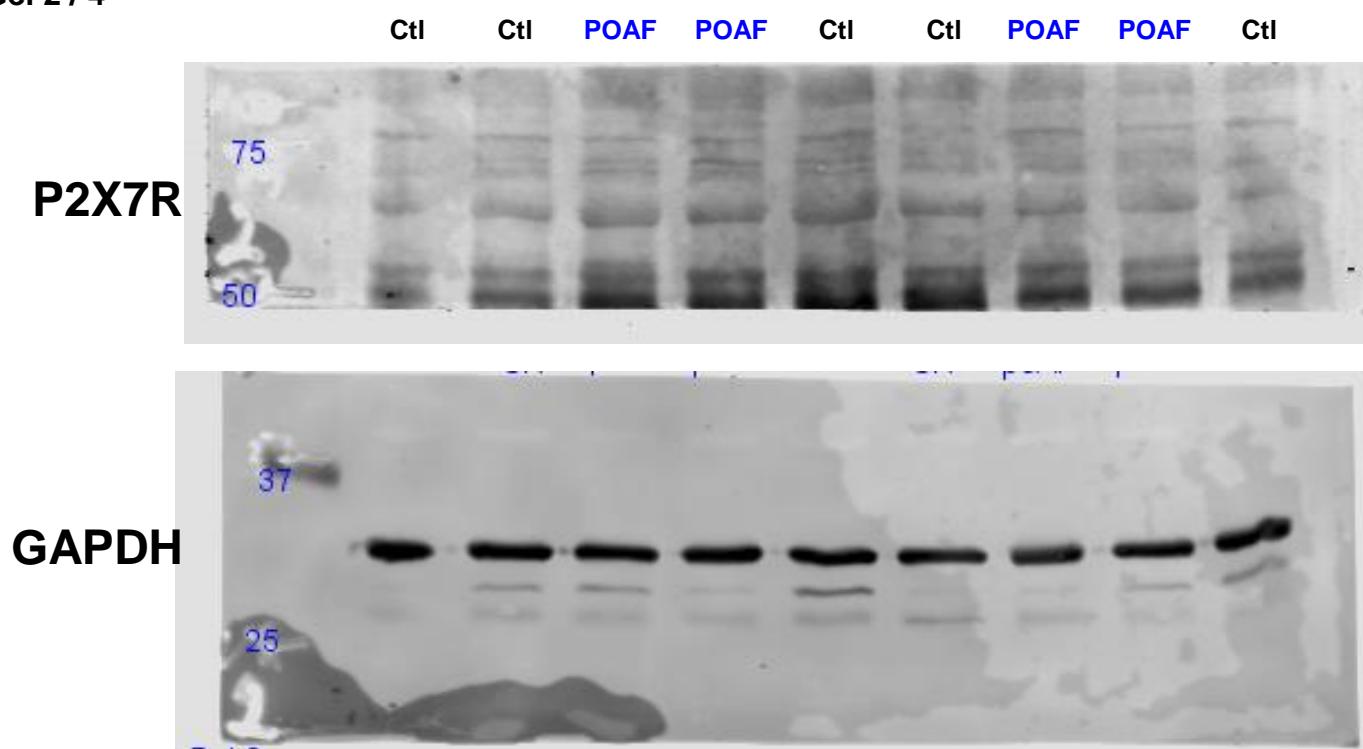
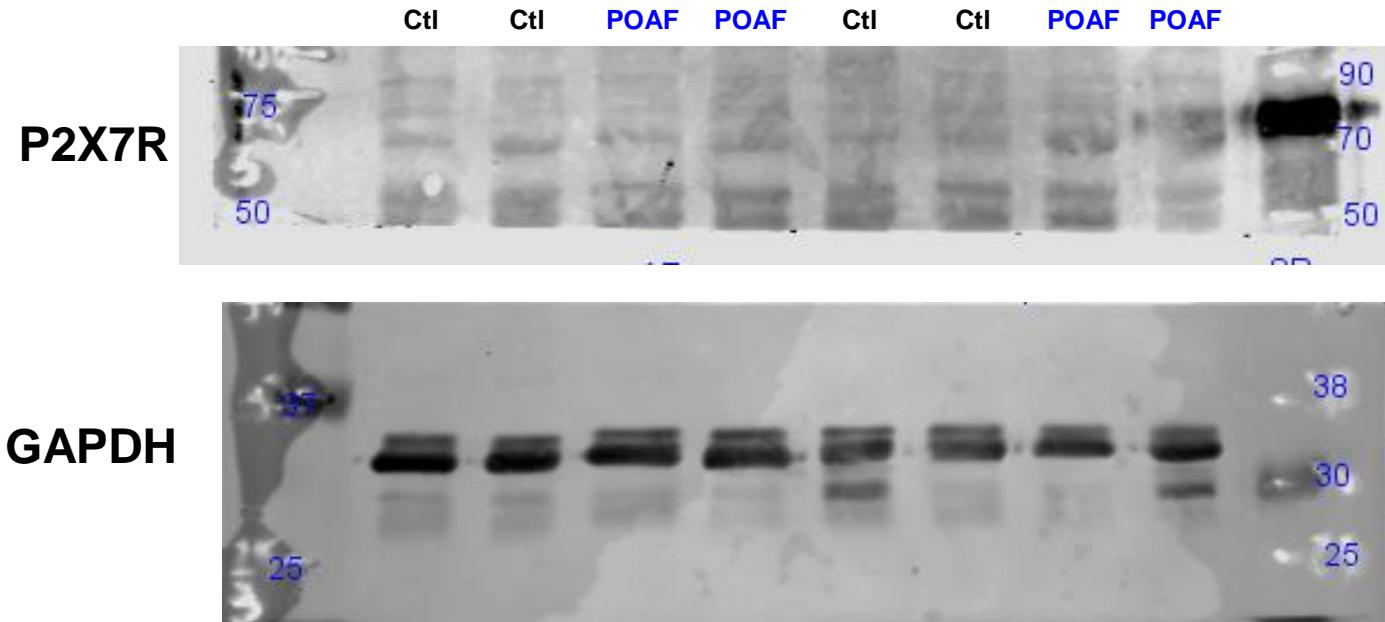


Figure 5B – Human atrial whole-tissue lysates

Gel 3 / 4



Gel 4 / 4

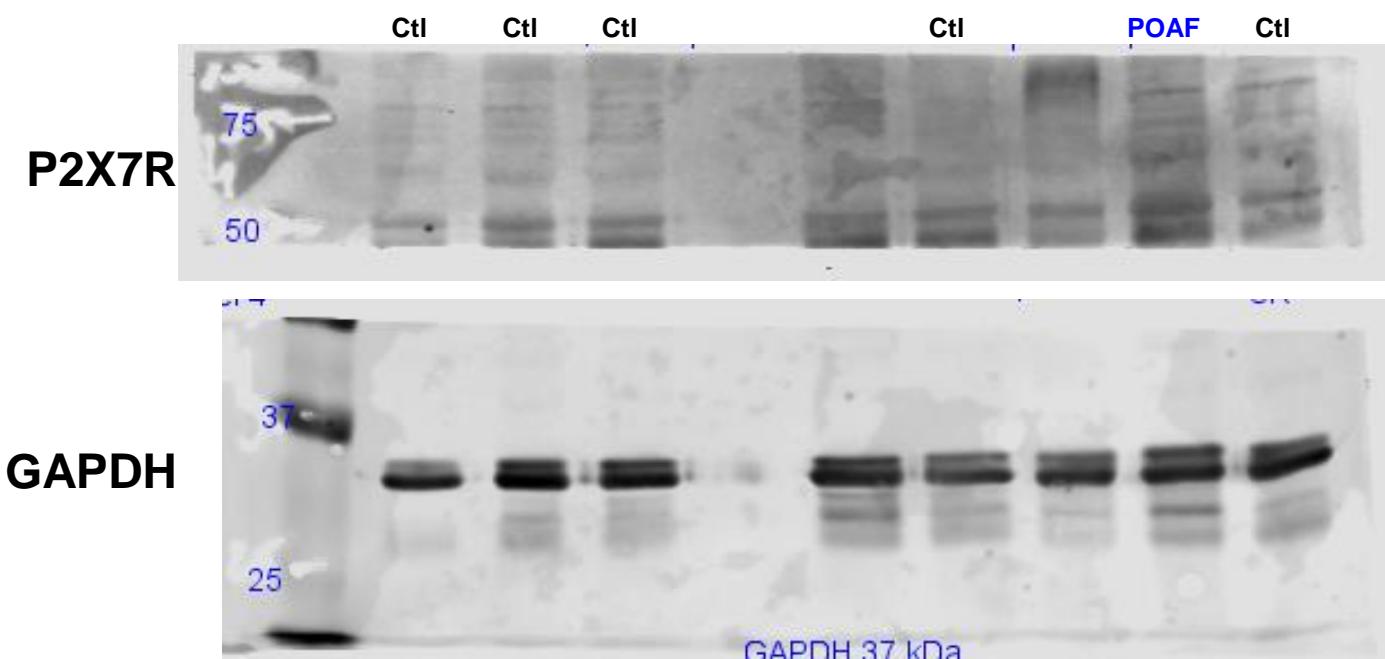
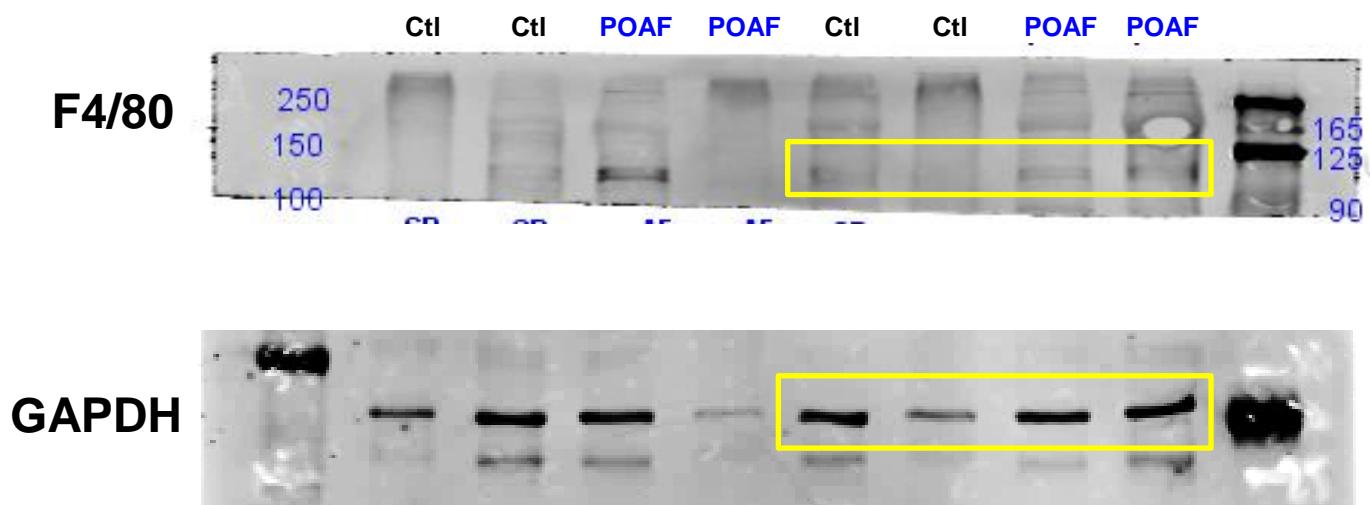


Figure 5B – Human atrial whole-tissue lysates

Gel 1 / 2



Gel 2 / 2

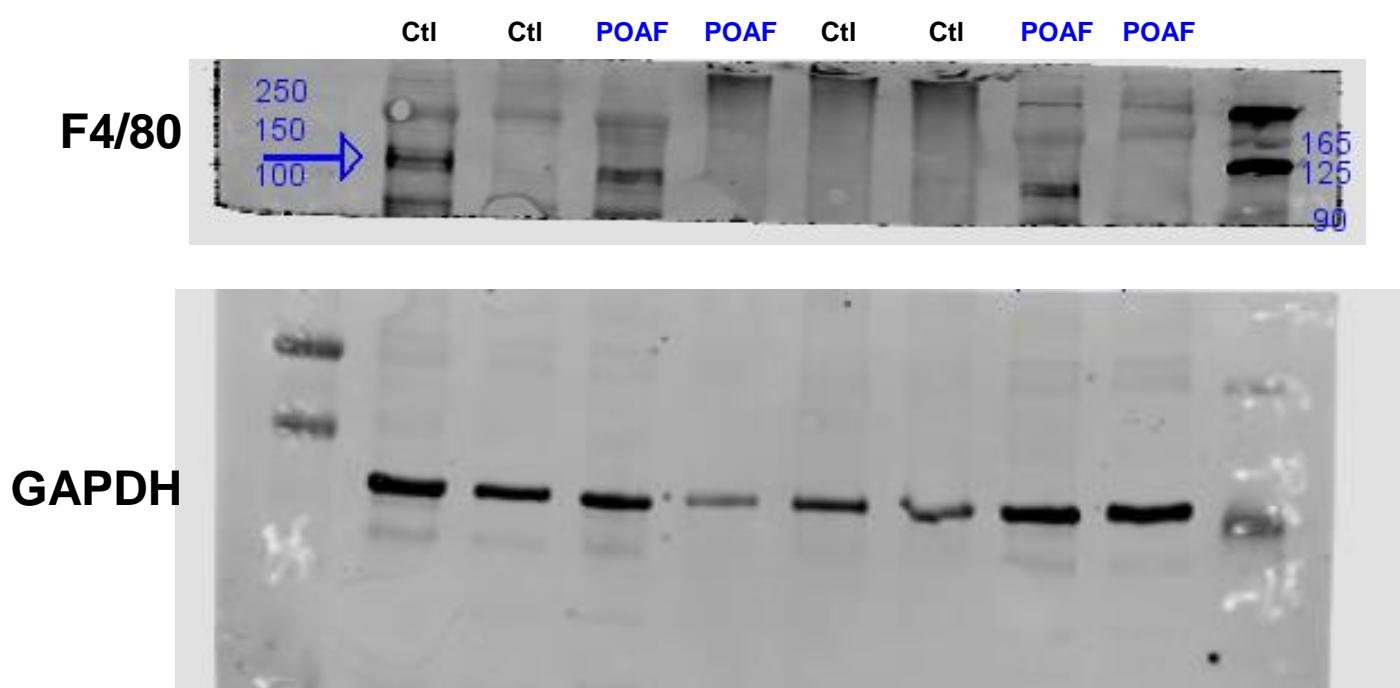
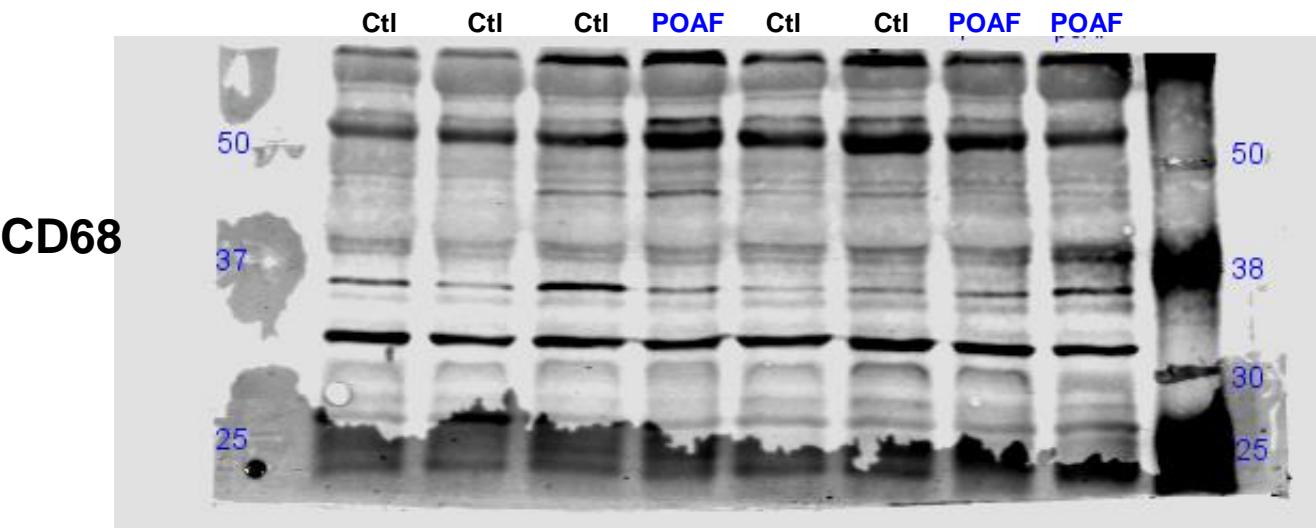
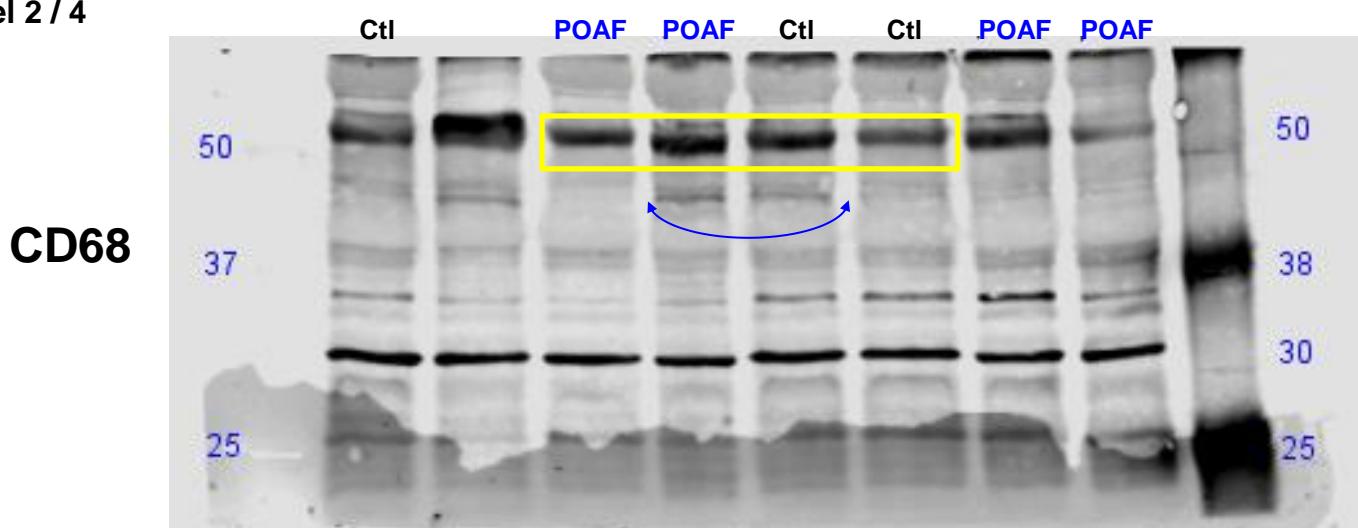
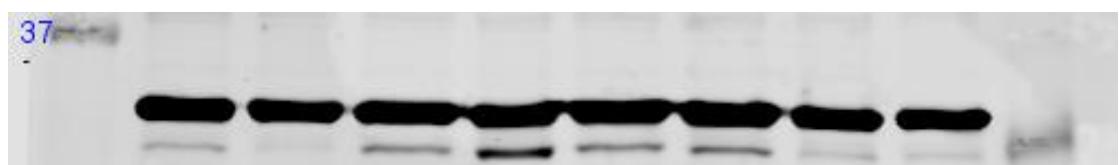


Figure 5C – Human atrial whole-tissue lysates



GAPDH



GAPDH

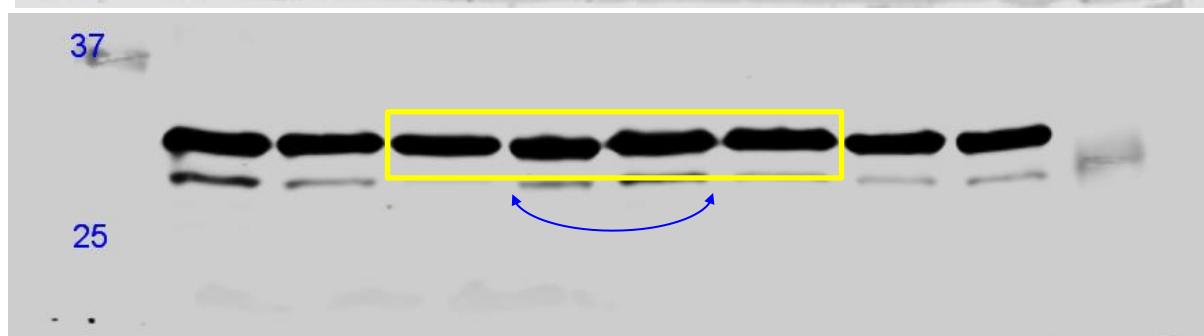
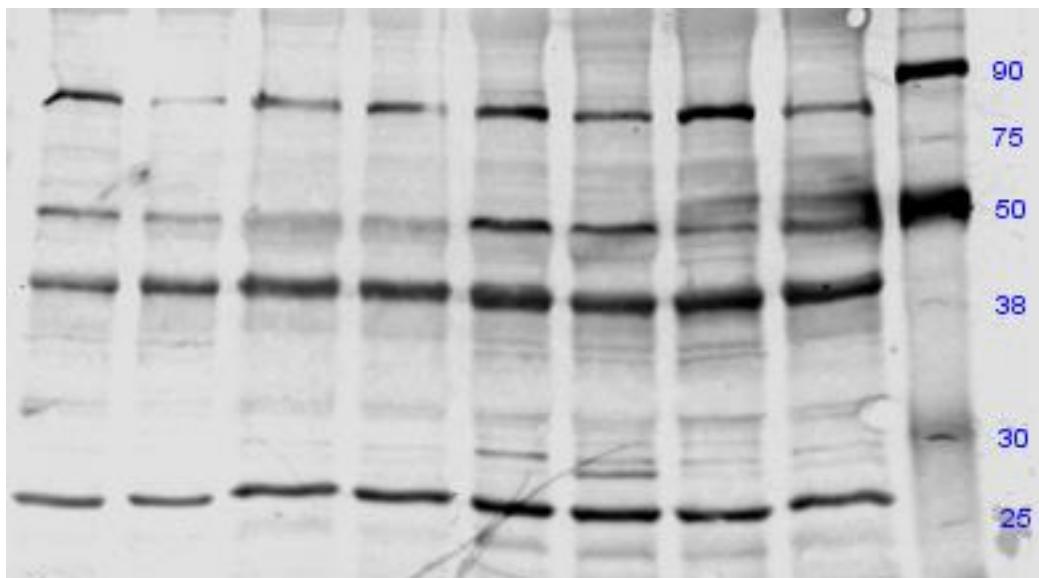


Figure 5C – Human atrial whole-tissue lysates

Gel 3 / 4

Ctl Ctl POAF POAF Ctl Ctl POAF POAF

CD68



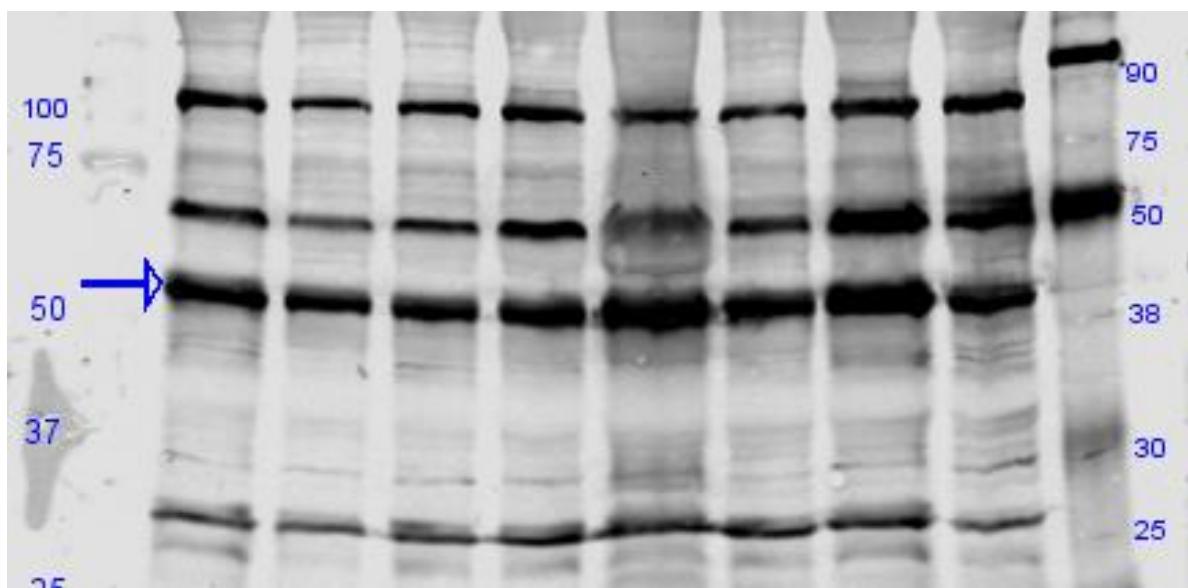
GAPDH



Gel 4 / 4

Ctl Ctl POAF Ctl Ctl POAF POAF

CD68



GAPDH

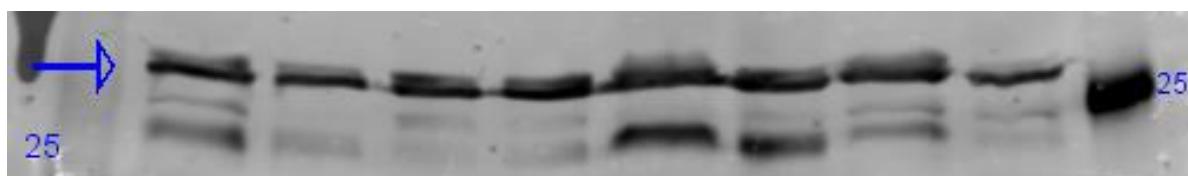
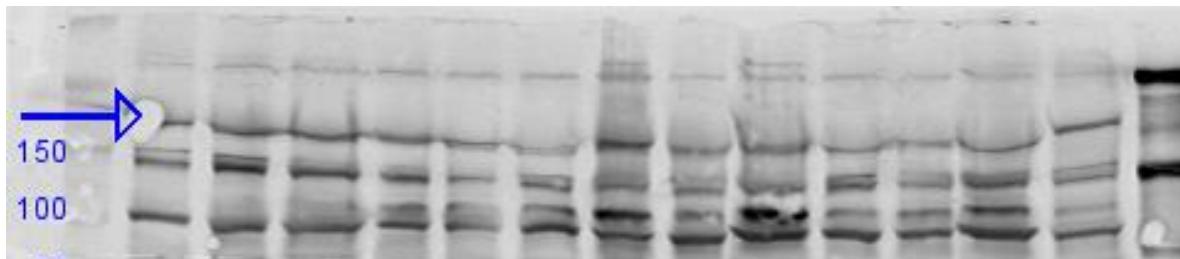


Figure 5C – Human atrial whole-tissue lysates

Ctl POAF POAF Ctl Ctl POAF POAF Ctl Ctl POAF POAF Ctl

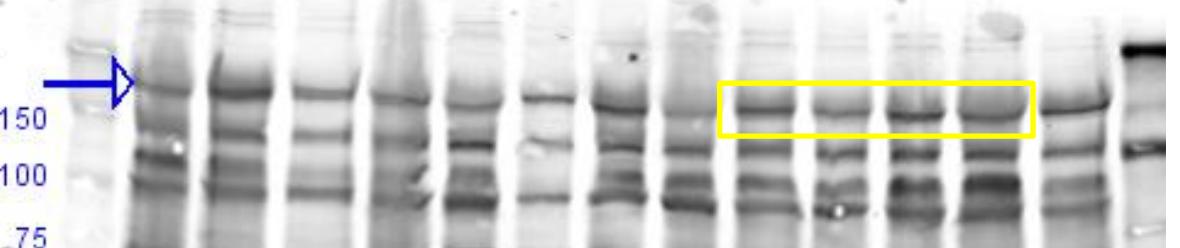
CD206



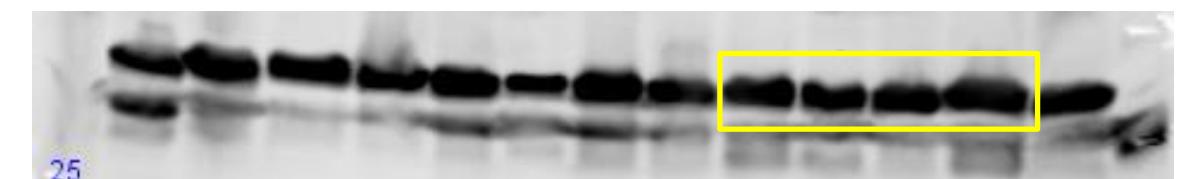
GAPDH

Ctl POAF POAF Ctl Ctl POAF POAF Ctl Ctl POAF POAF Ctl

CD206

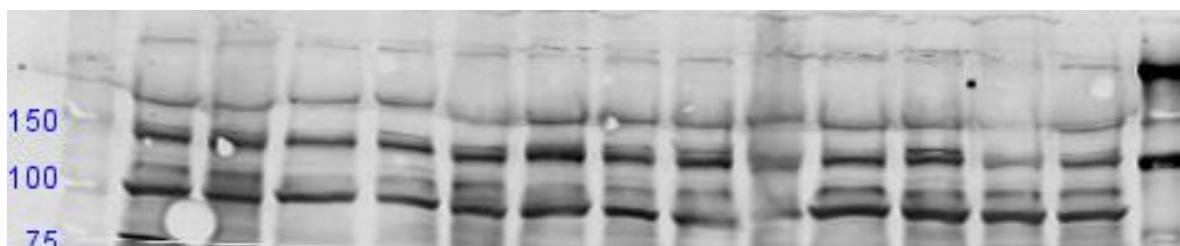


GAPDH



Ctl Ctl POAF POAF Ctl Ctl POAF Ctl POAF Ctl Ctl POAF

CD206



GAPDH



Figure 5C – Human atrial whole-tissue lysates

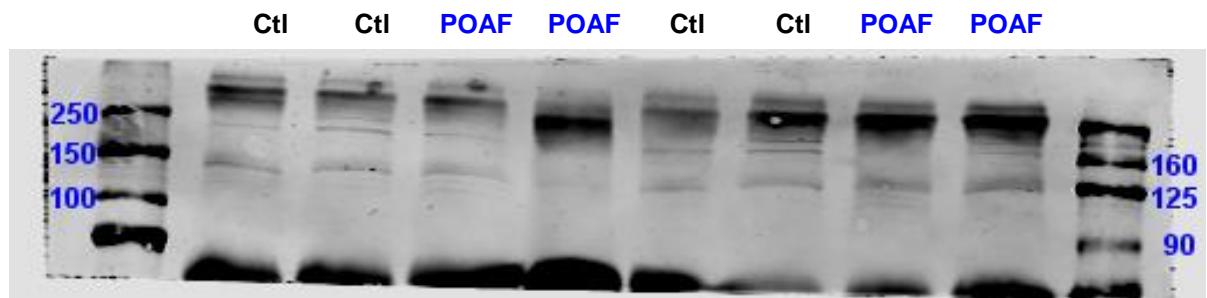
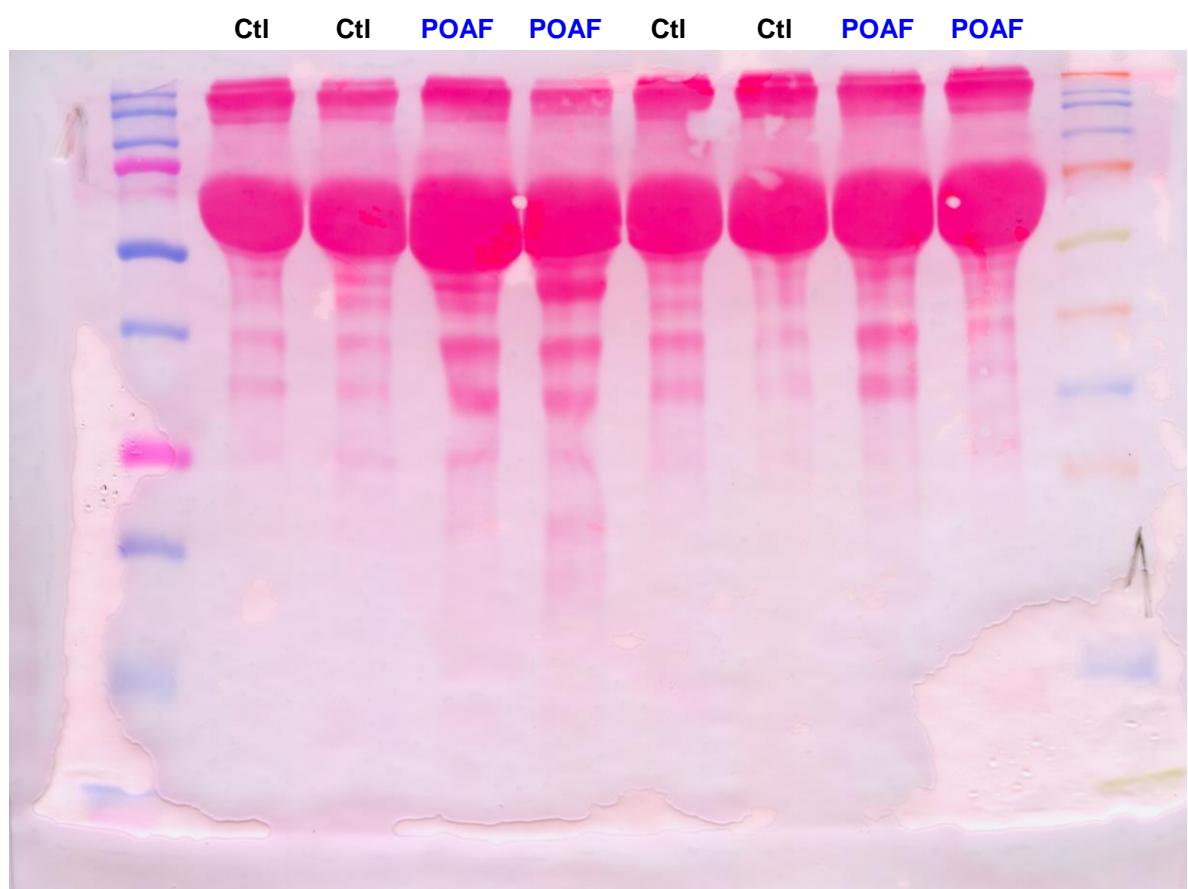
NLRP3**Ponceau**

Figure 6A – Human atrial cardiomyocytes

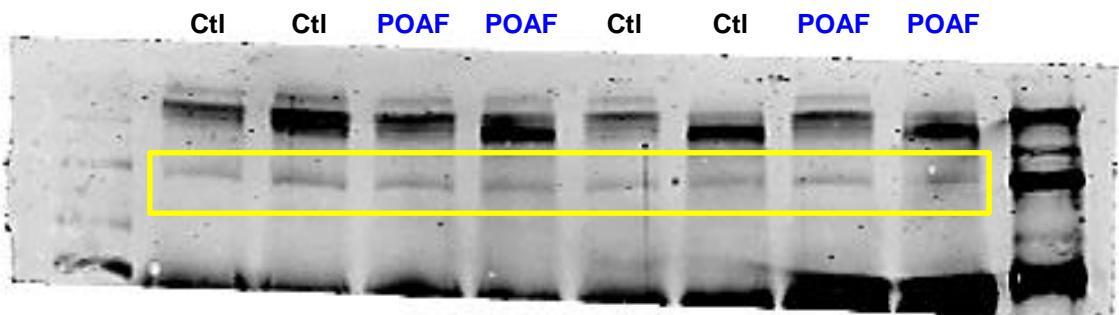
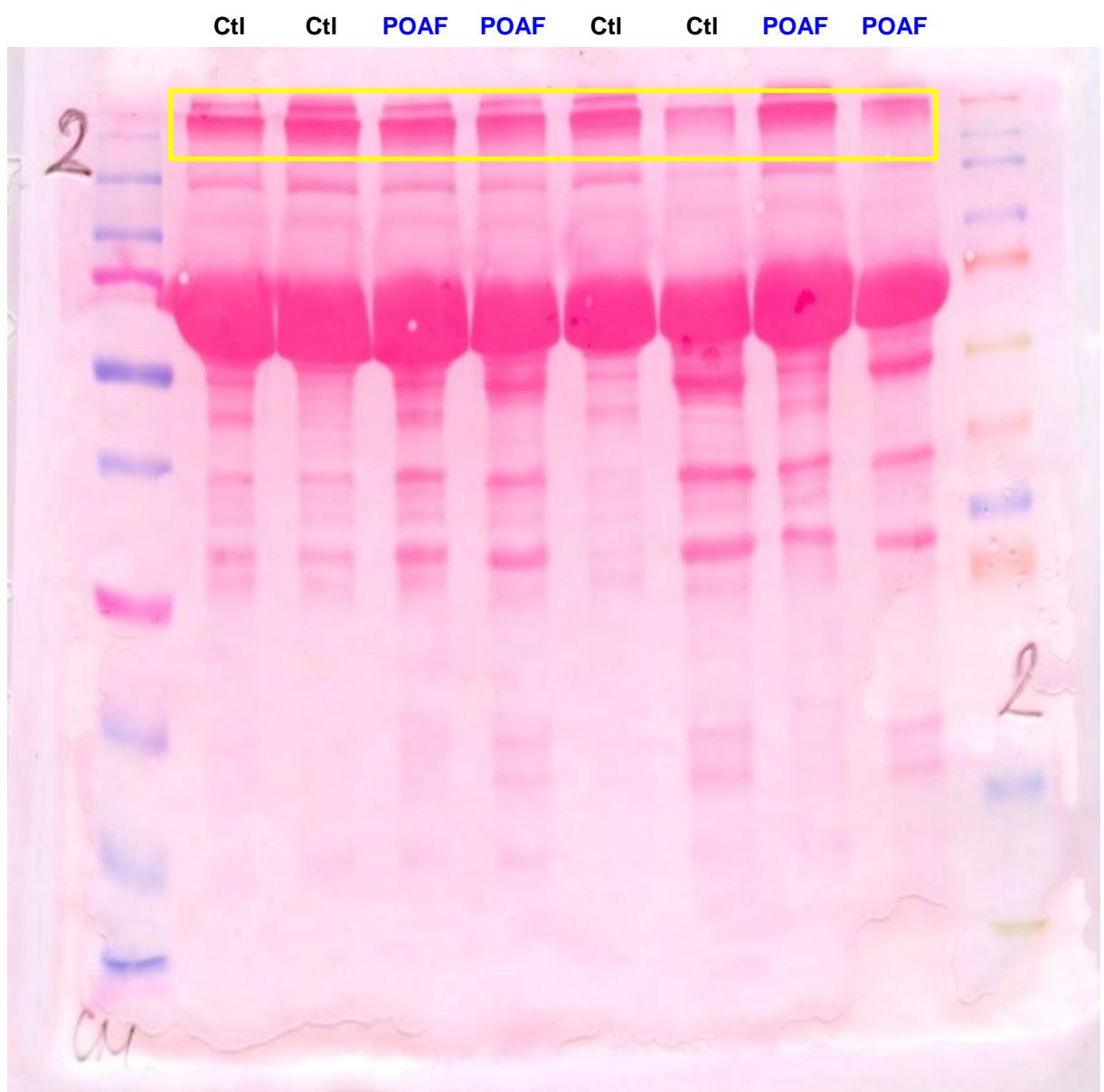
NLRP3**Ponceau**

Figure 6A – Human atrial cardiomyocytes

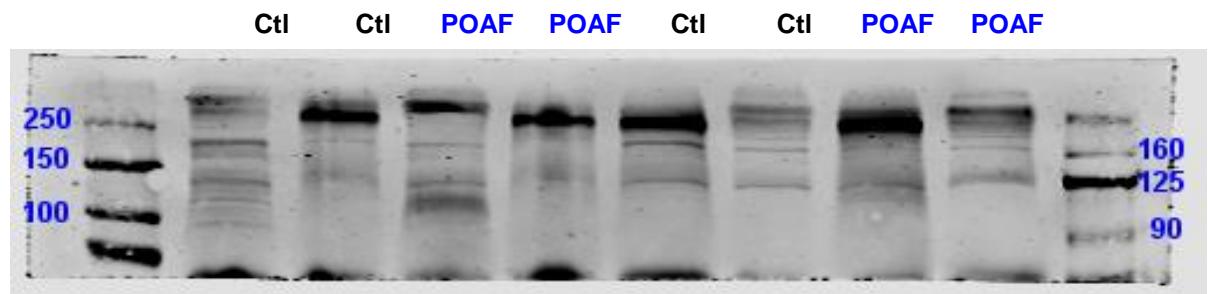
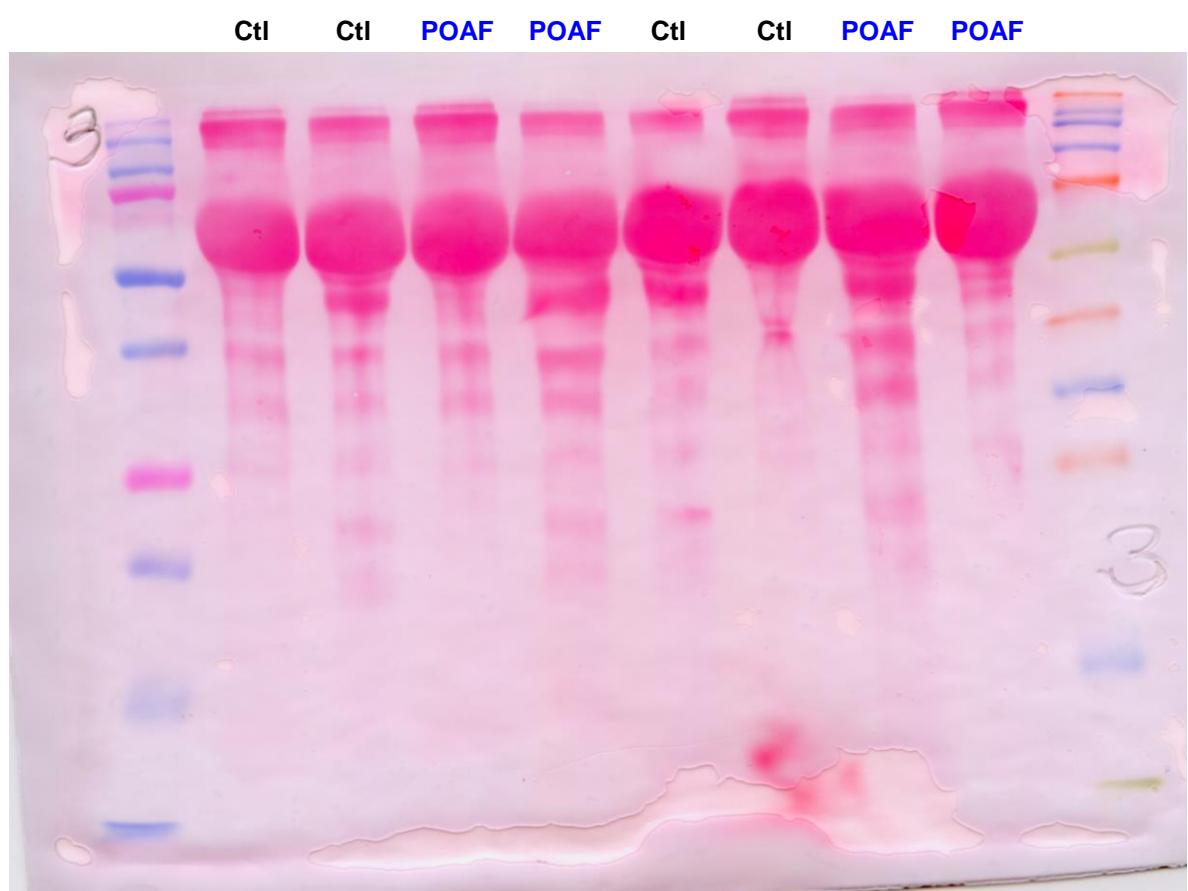
NLRP3**Ponceau**

Figure 6A – Human atrial cardiomyocytes

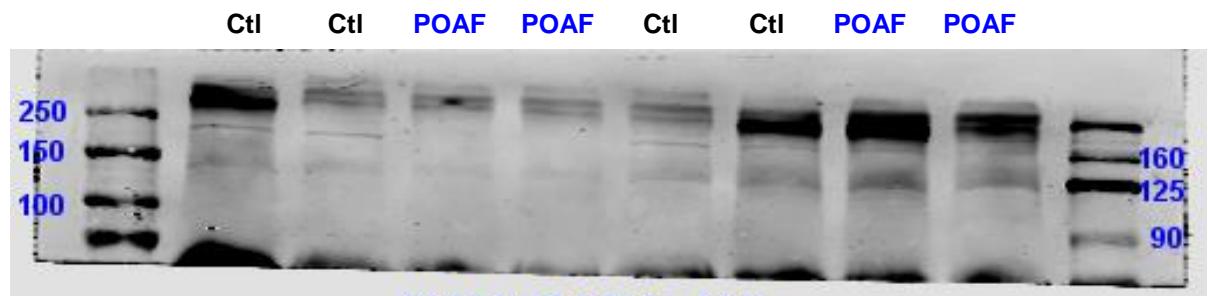
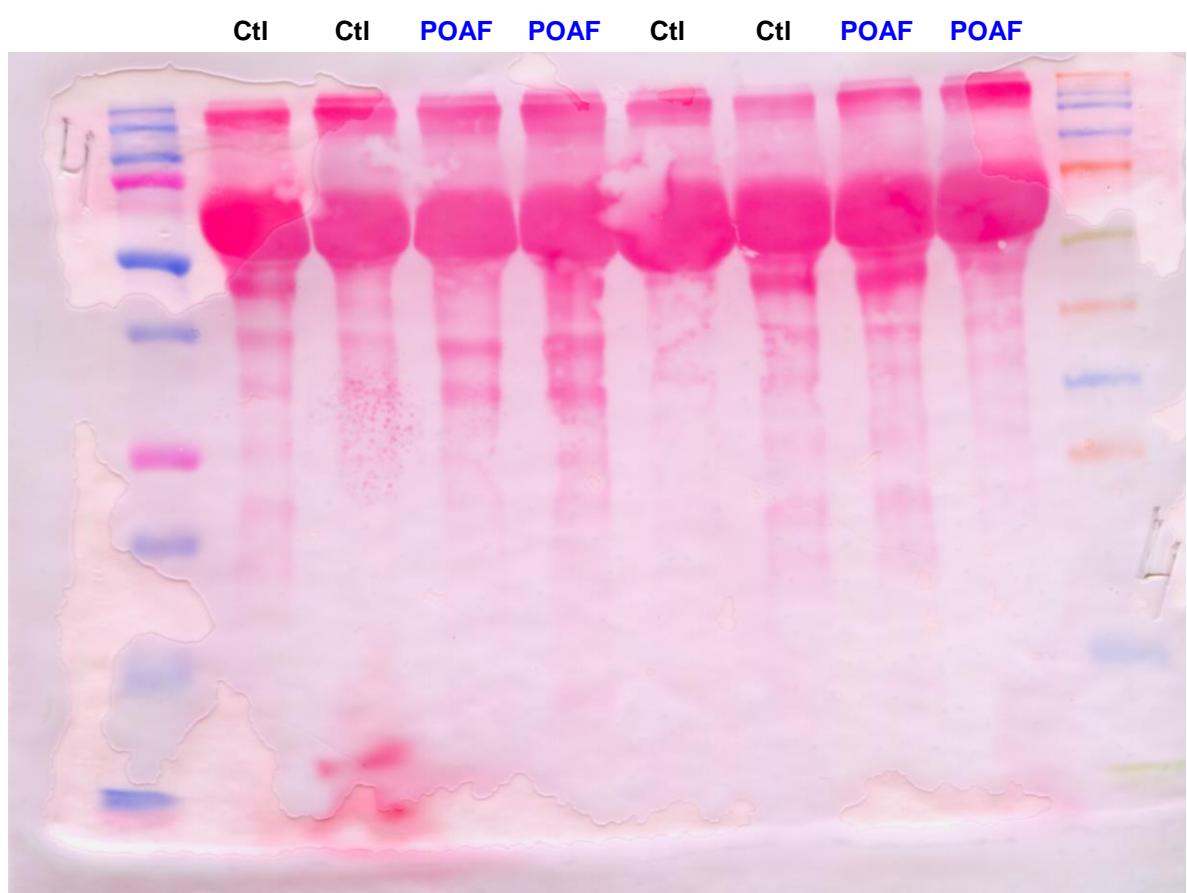
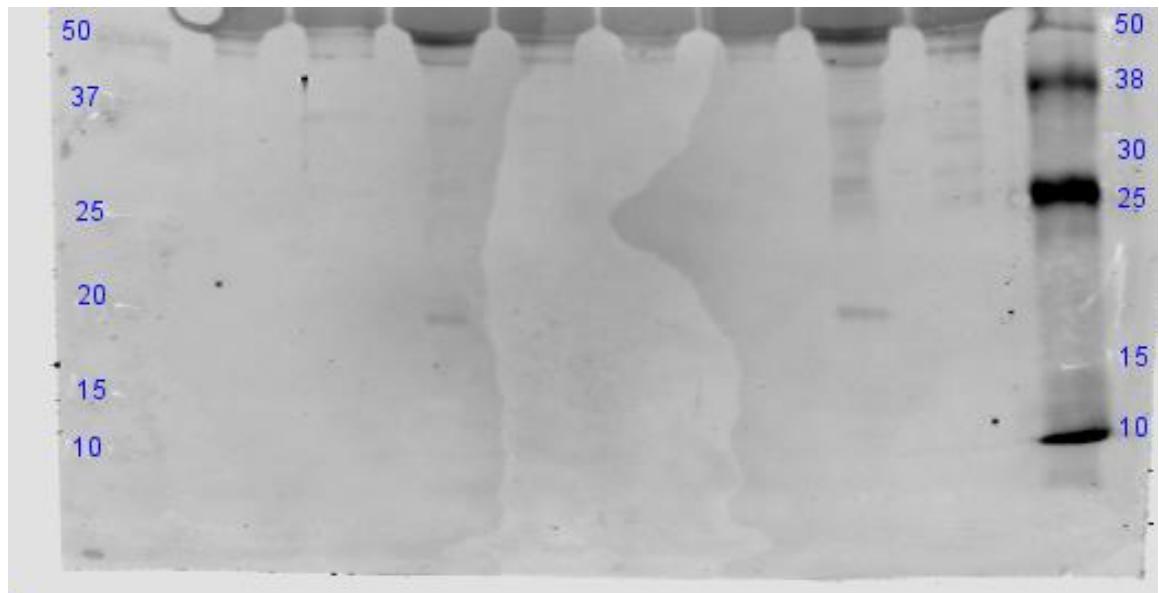
NLRP3**Ponceau**

Figure 6A – Human atrial cardiomyocytes

ASC

Ctl Ctl POAF Ctl POAF



Ponceau

Ctl Ctl POAF Ctl POAF

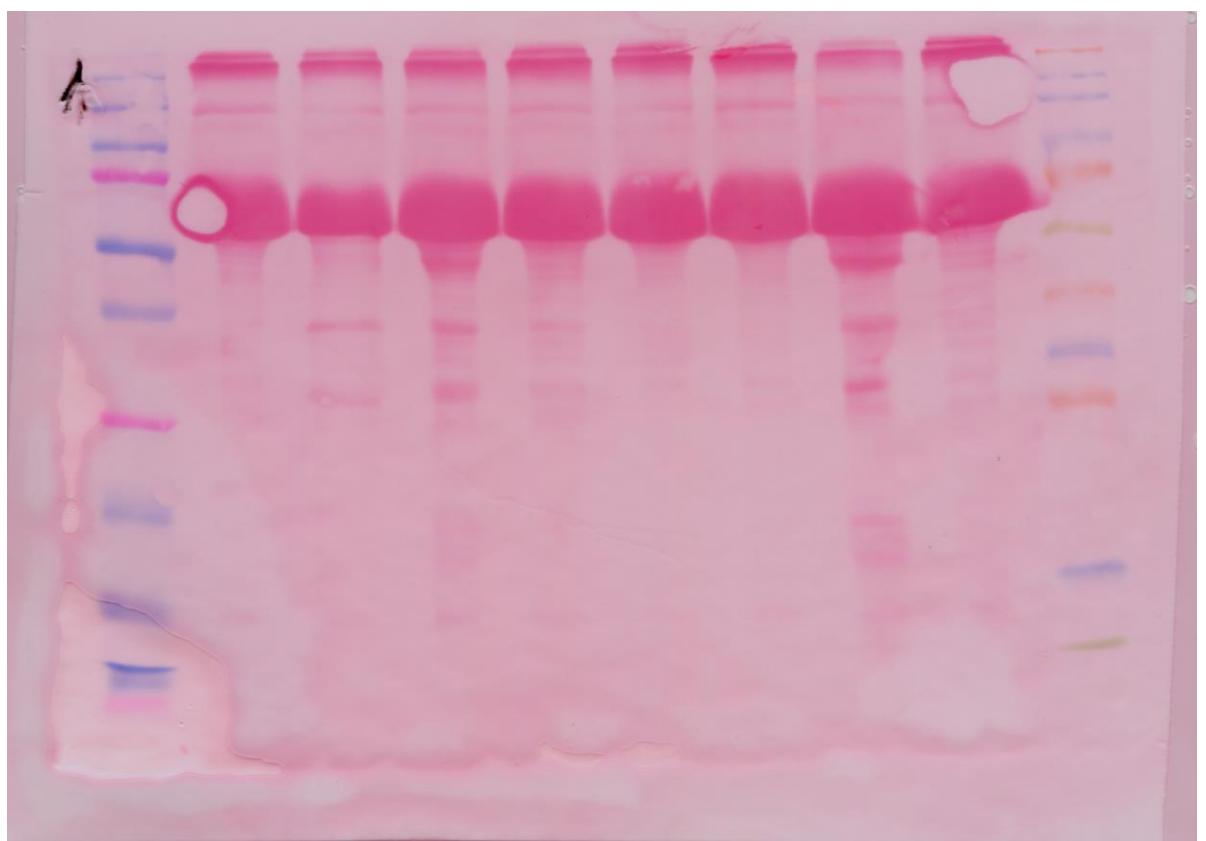
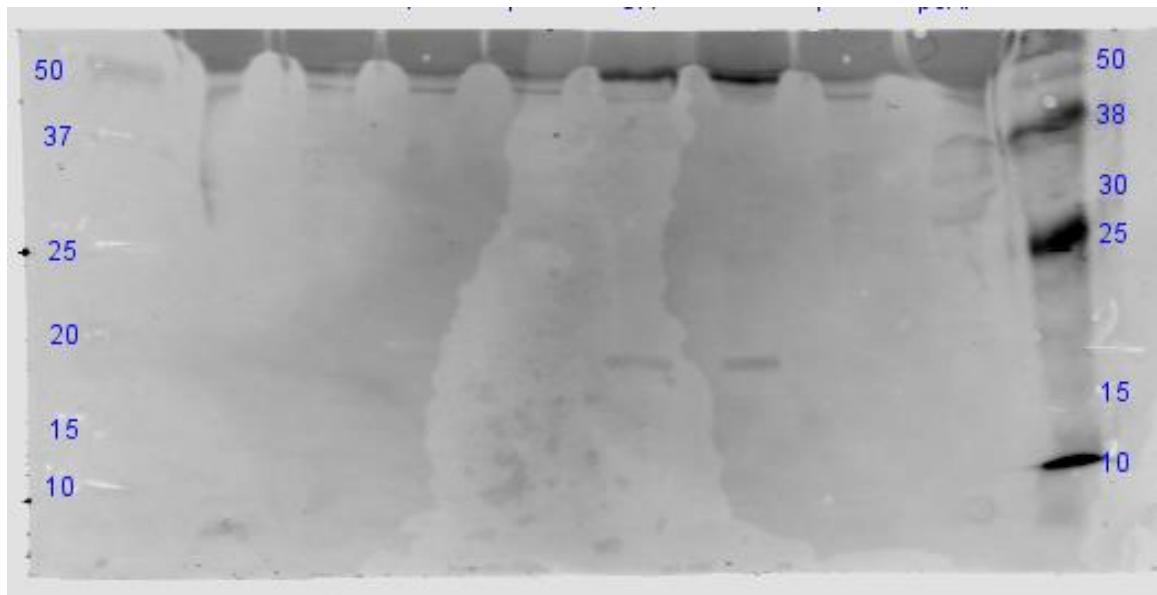


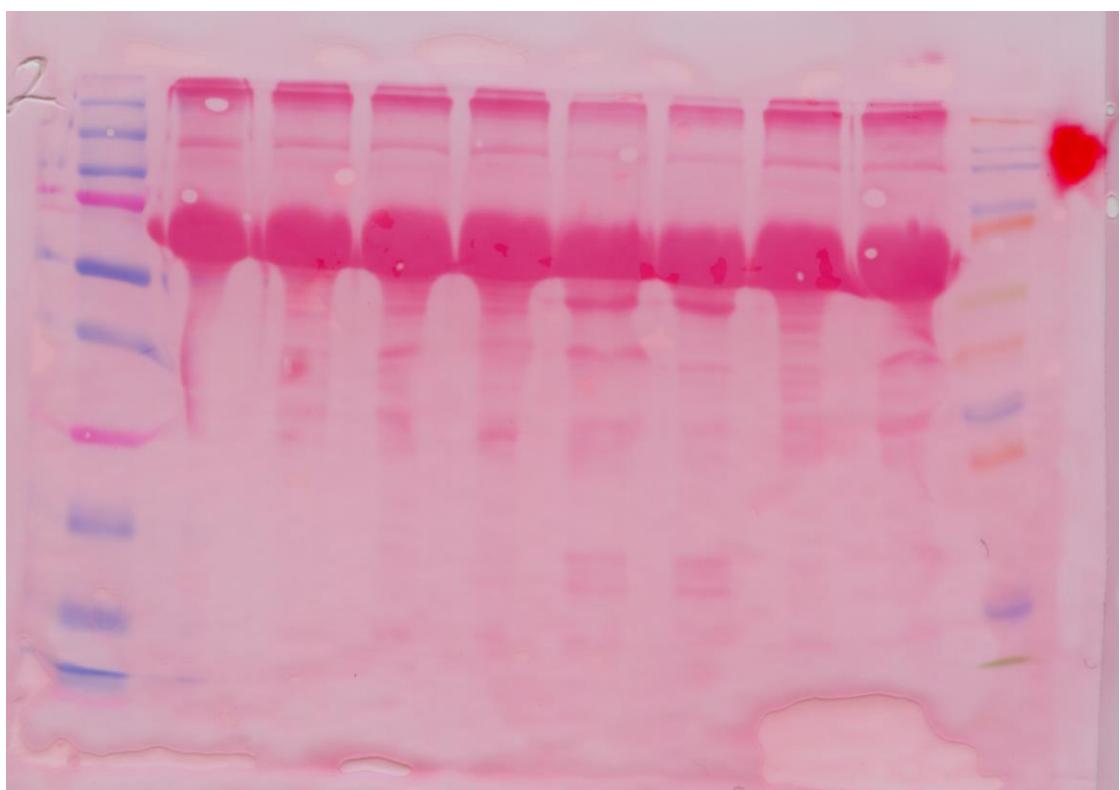
Figure 6B – Human atrial cardiomyocytes

ASC

Ctl POAF Ctl Ctl POAF POAF

**Ponceau**

Ctl POAF Ctl Ctl POAF POAF

**Figure 6B – Human atrial cardiomyocytes**

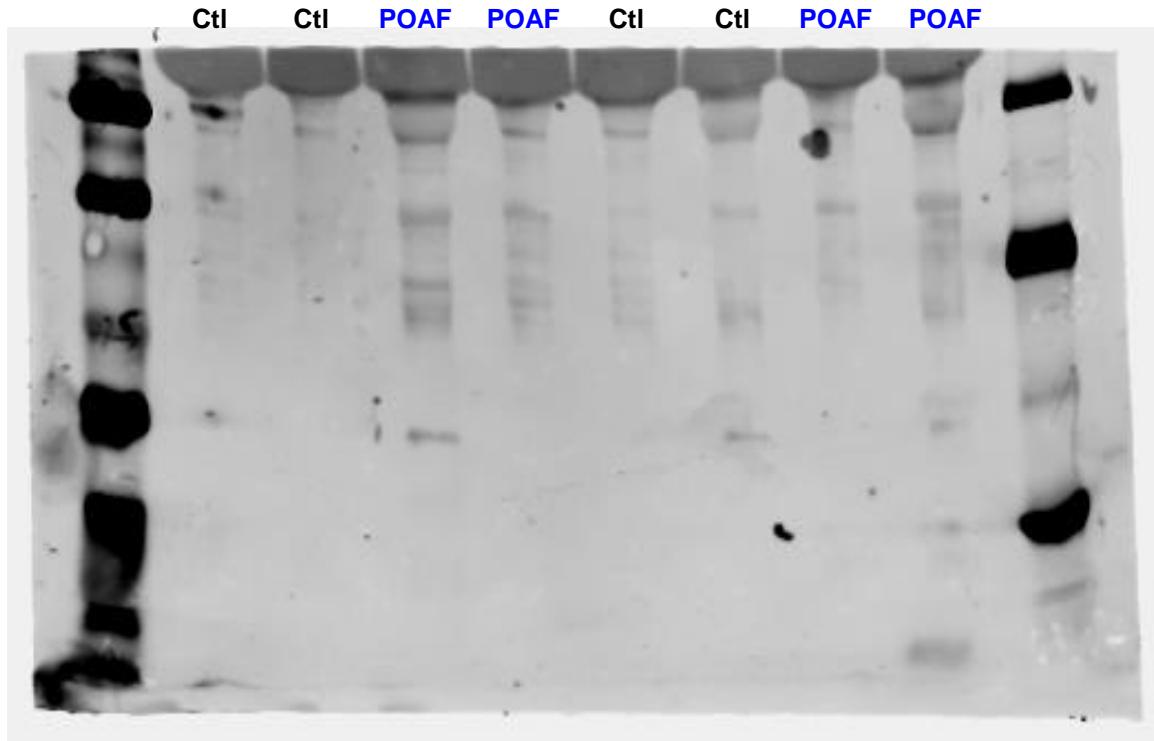
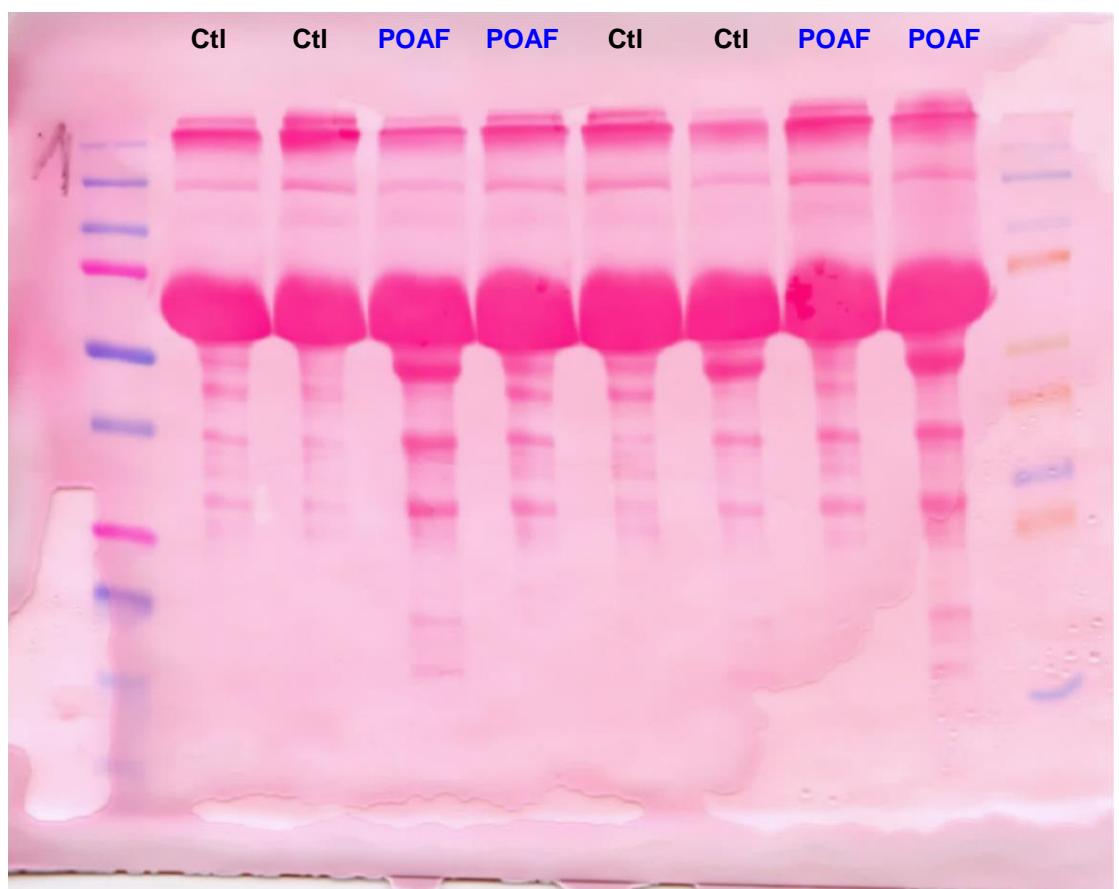
ASC**Ponceau**

Figure 6B – Human atrial cardiomyocytes

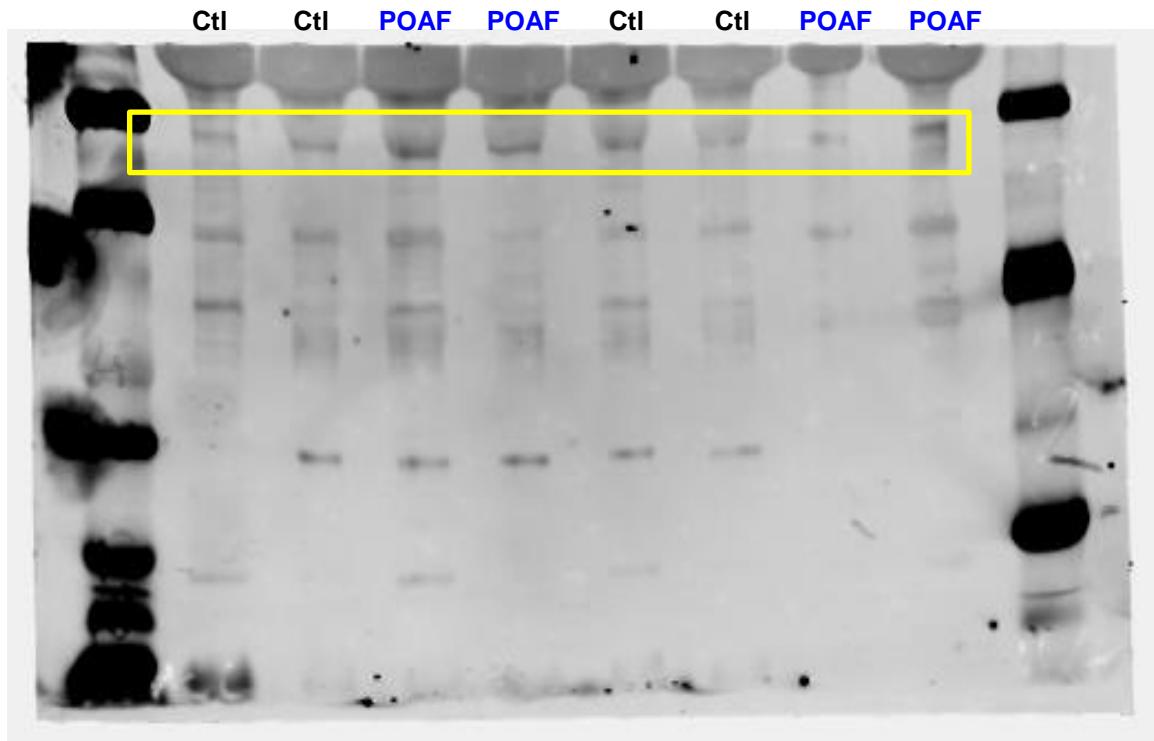
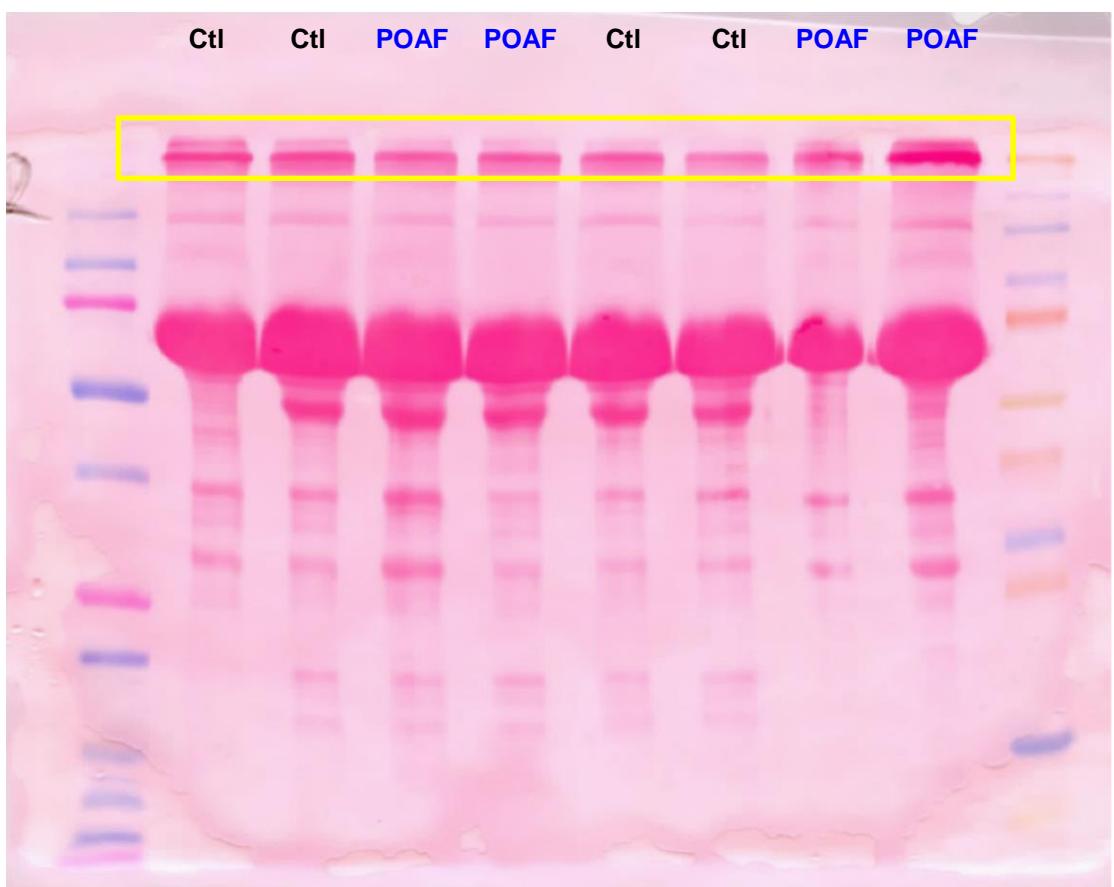
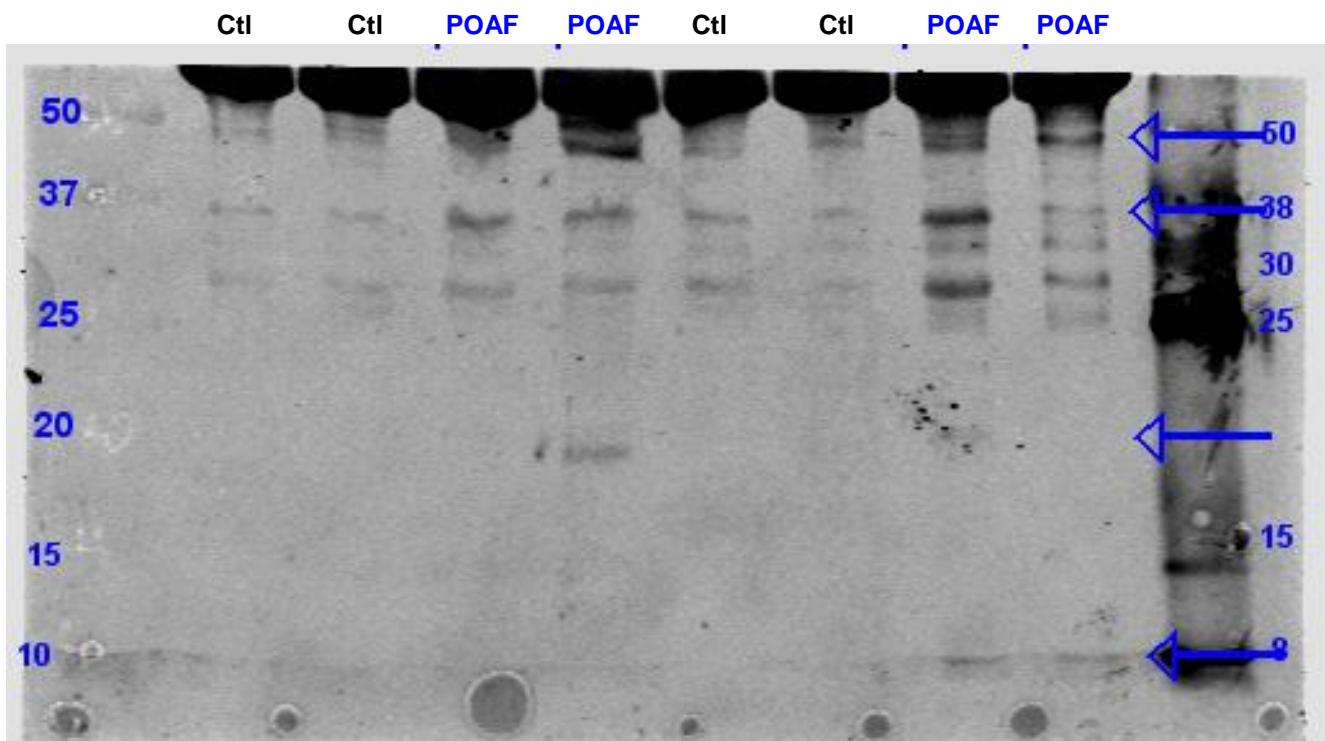
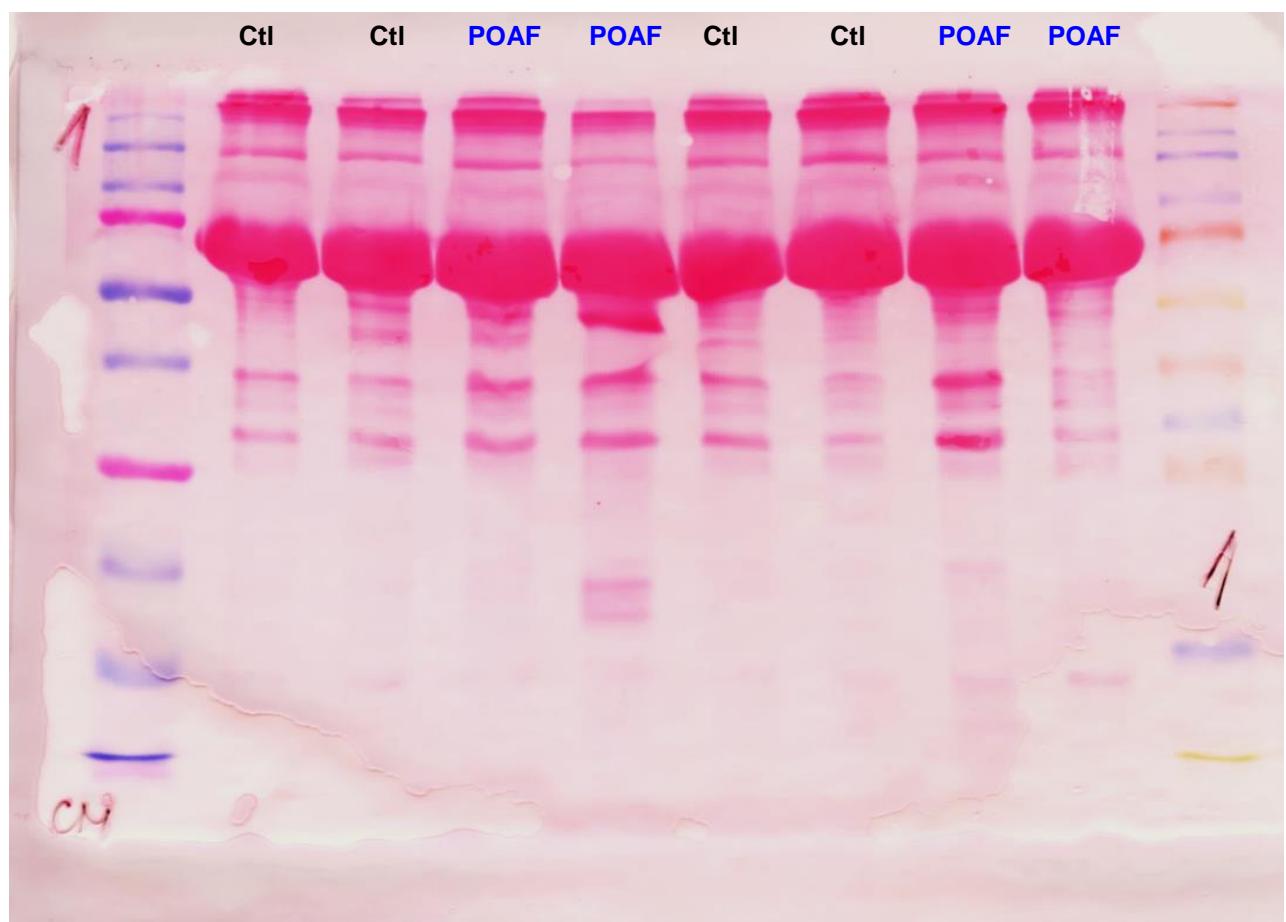
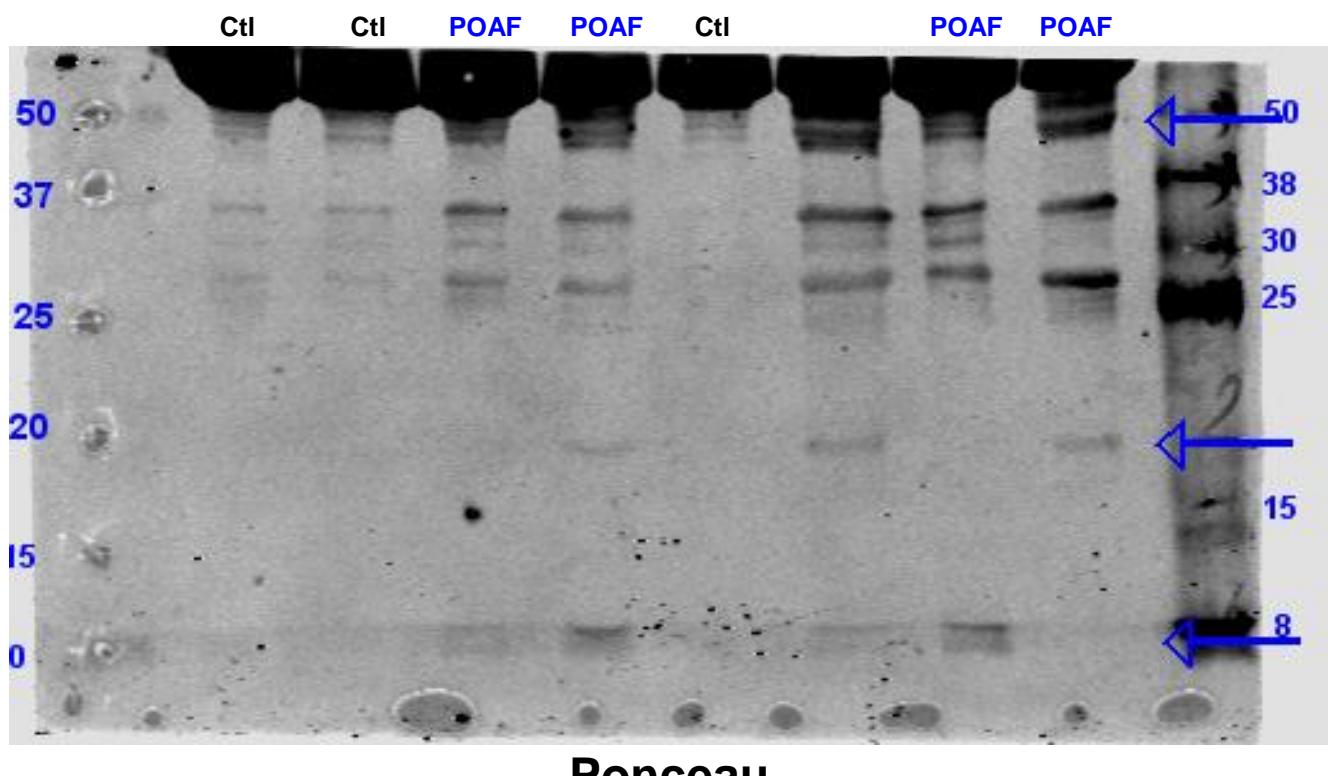
ASC**Ponceau**

Figure 6B – Human atrial cardiomyocytes

(Pro-)Caspase-1**Ponceau****Figure 6C – Human atrial cardiomyocytes**

(Pro-)Caspase-1



Ponceau

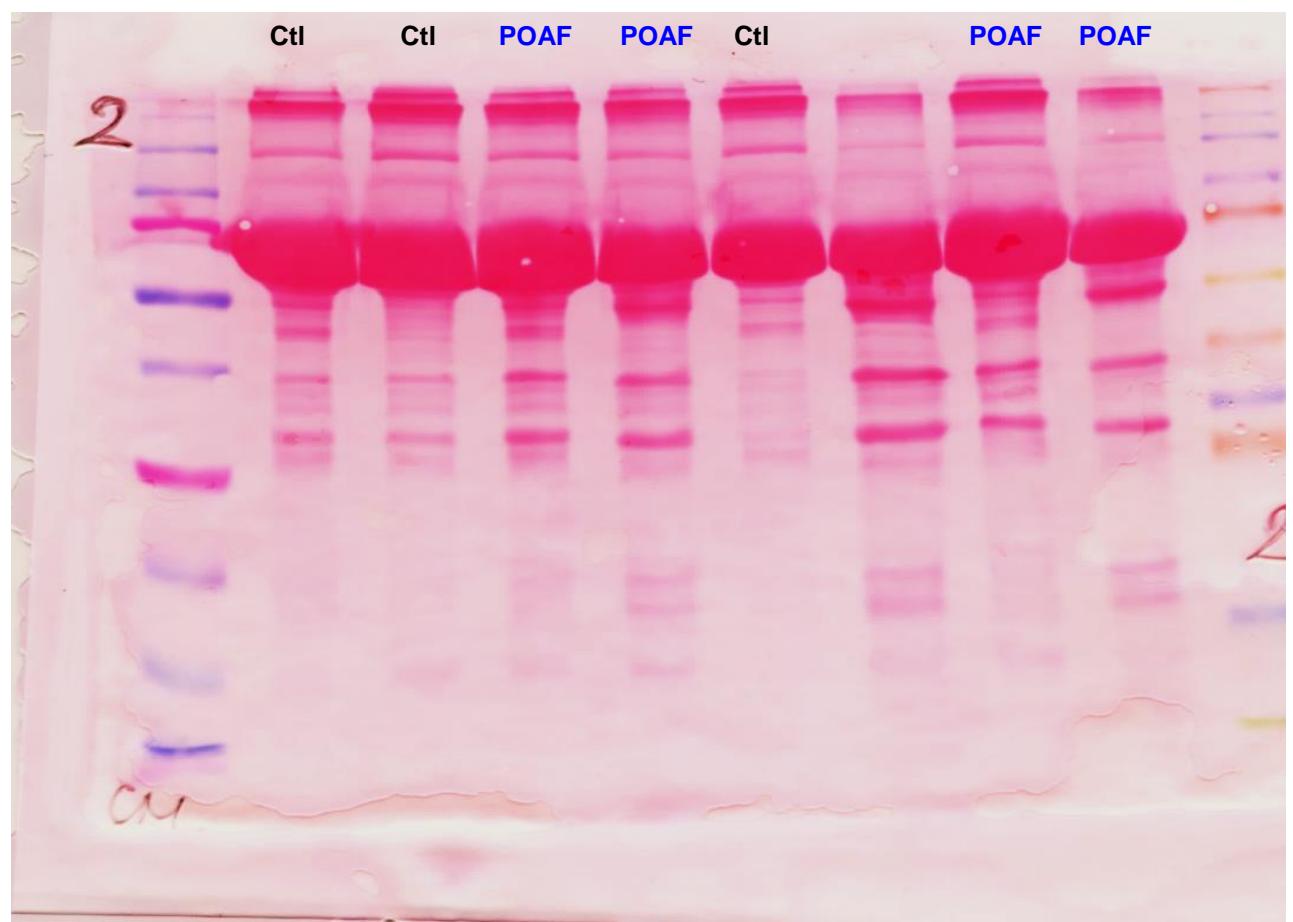
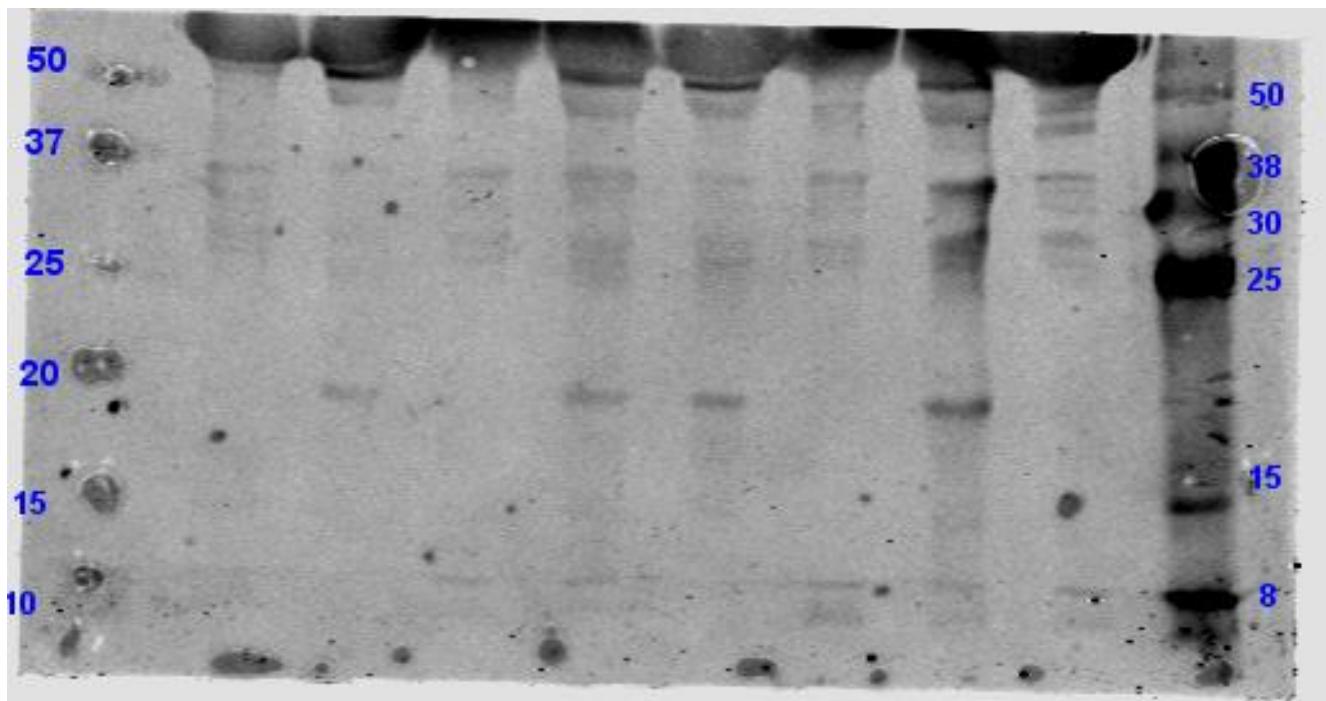


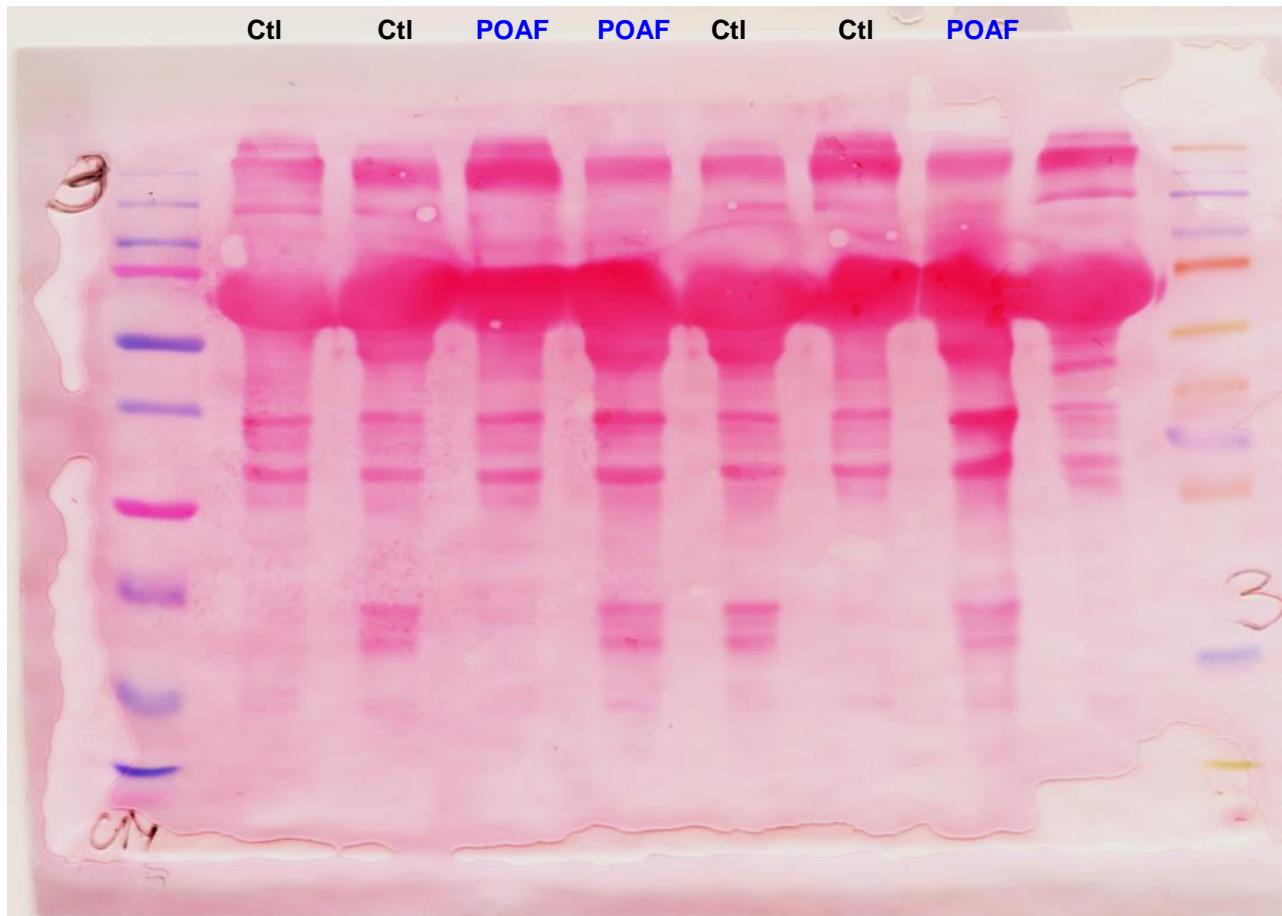
Figure 6C – Human atrial cardiomyocytes

(Pro-)Caspase-1

Ctl Ctl POAF POAF Ctl Ctl POAF

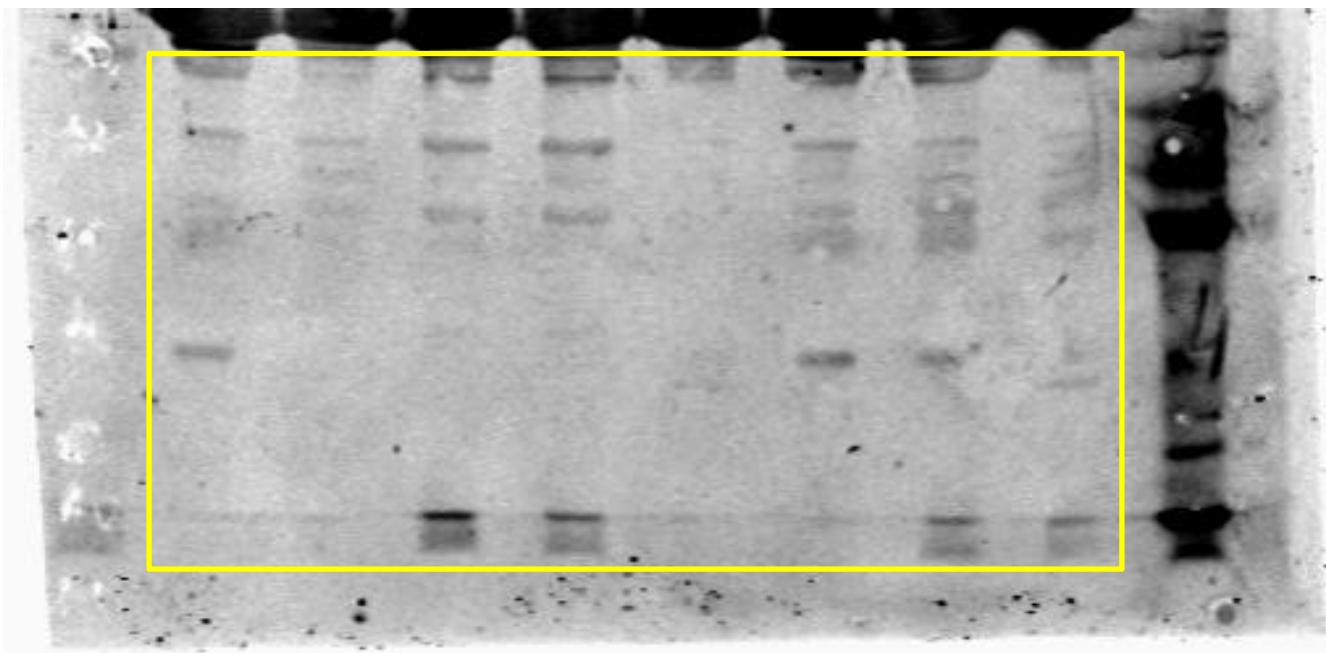
**Ponceau**

Ctl Ctl POAF POAF Ctl Ctl POAF

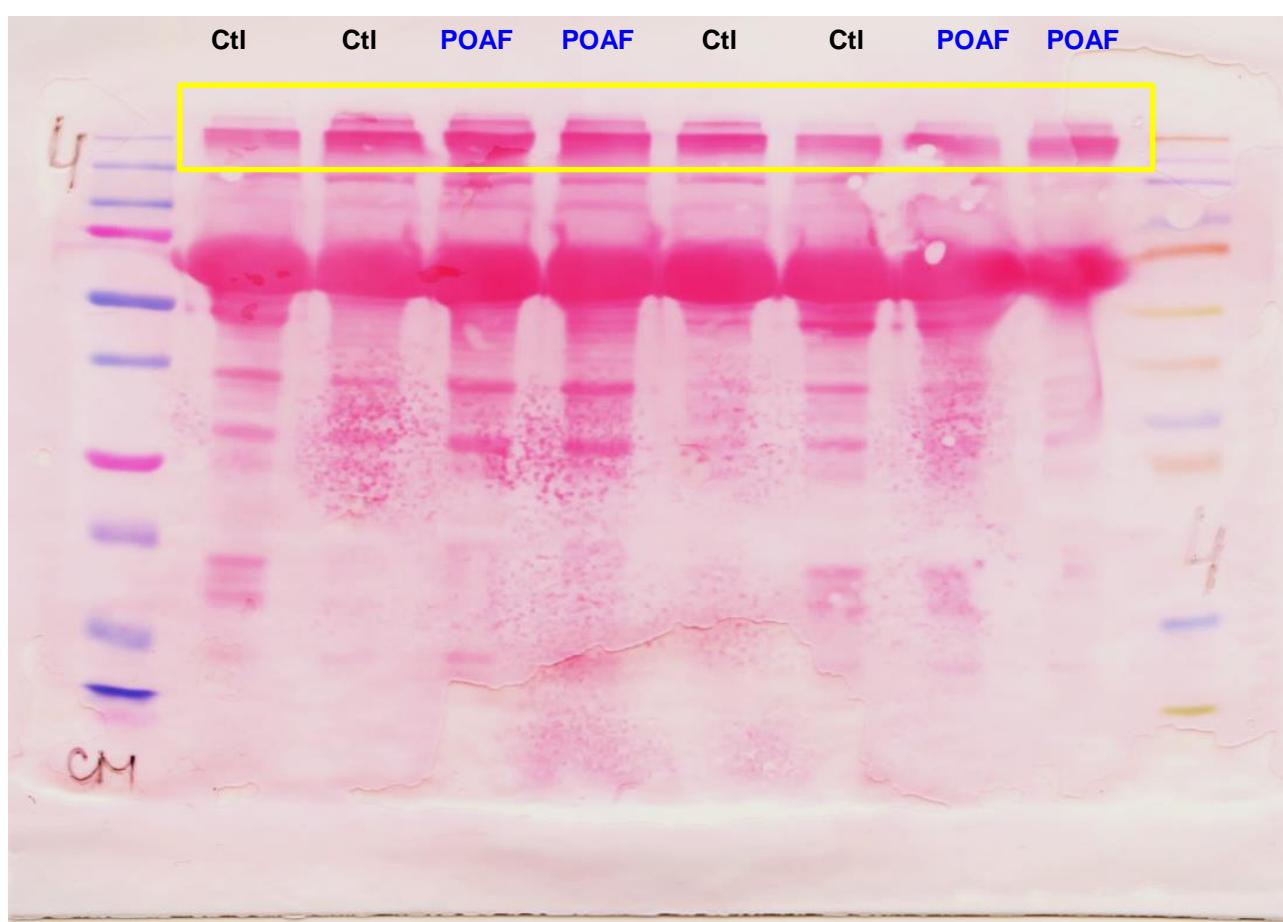
**Figure 6C – Human atrial cardiomyocytes**

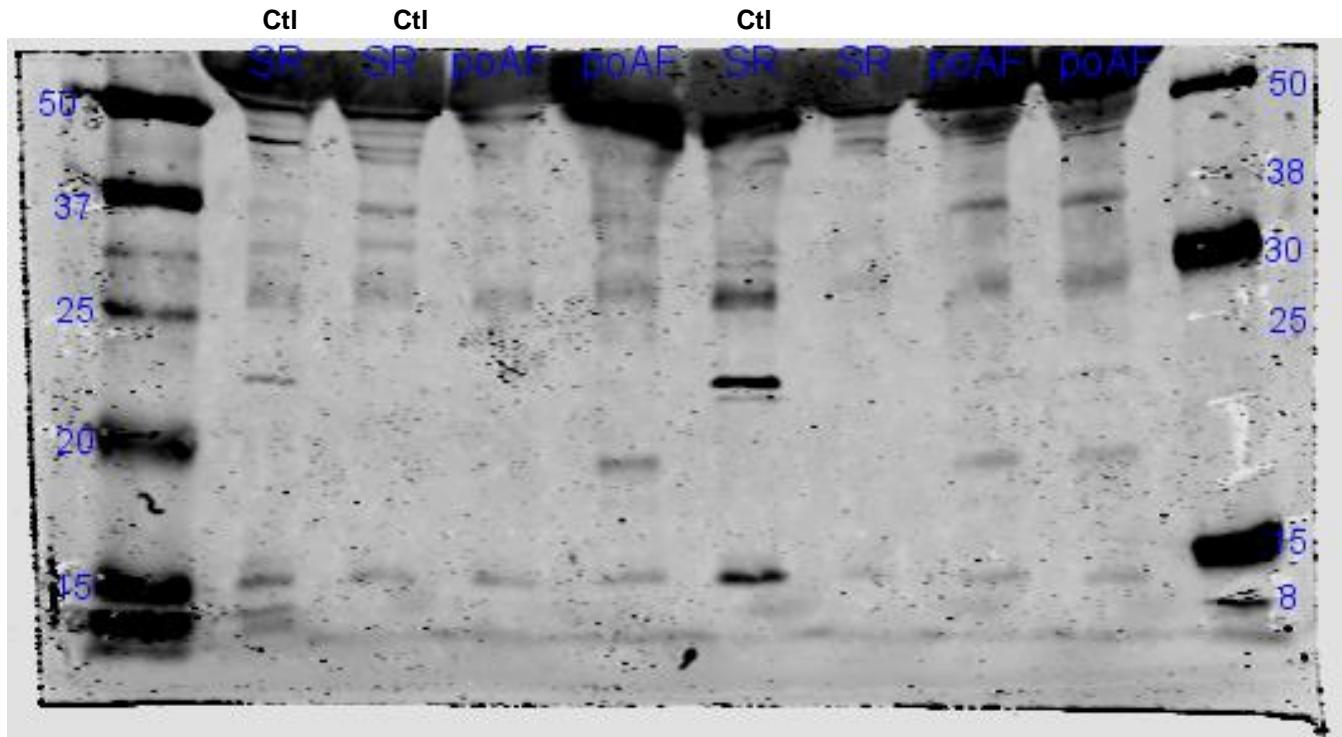
(Pro-)Caspase-1

Ctl Ctl POAF POAF Ctl Ctl POAF POAF

**Ponceau**

Ctl Ctl POAF POAF Ctl Ctl POAF POAF

**Figure 6C – Human atrial cardiomyocytes**

(Pro-)Interleukin-1 β 

Ponceau

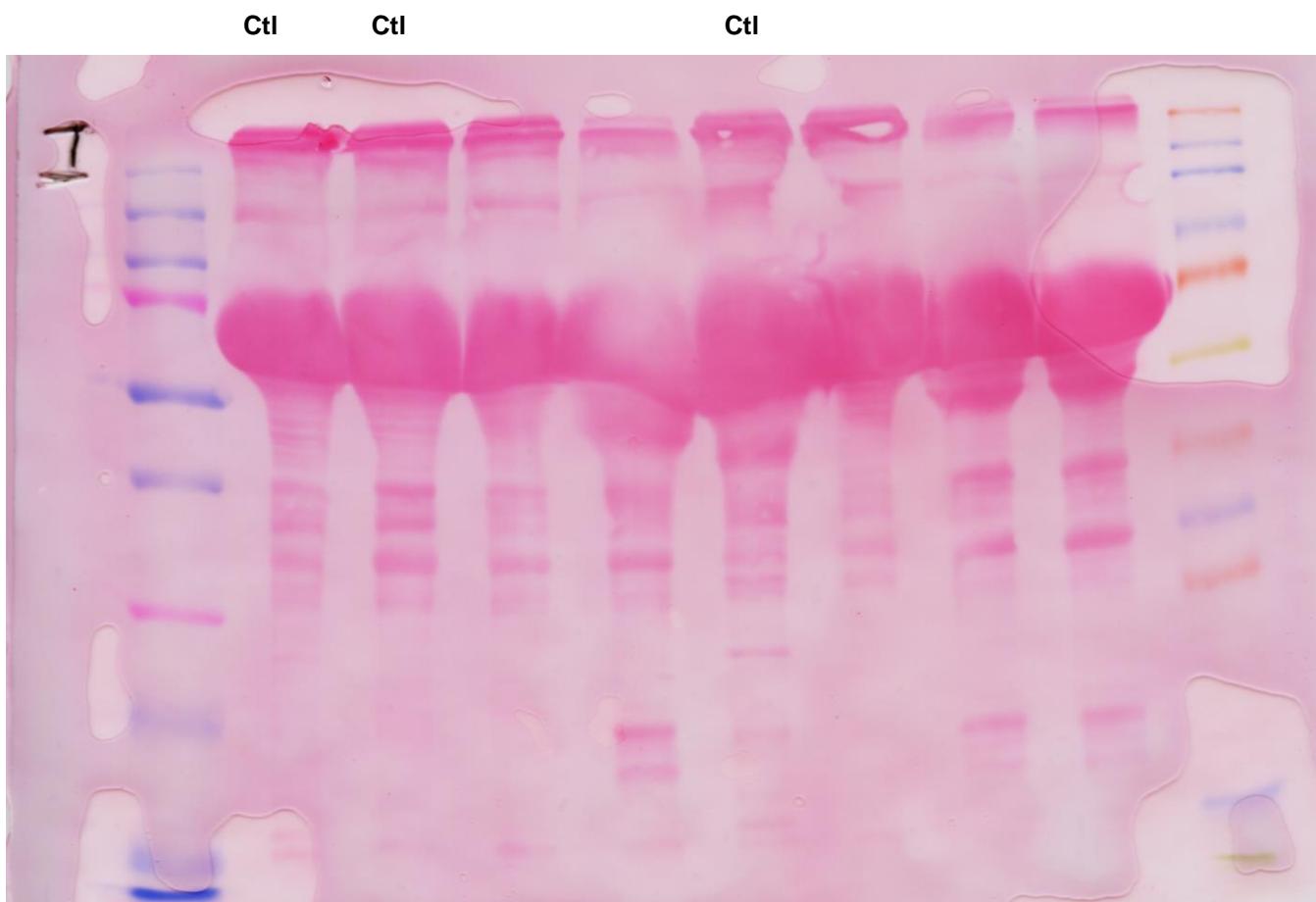
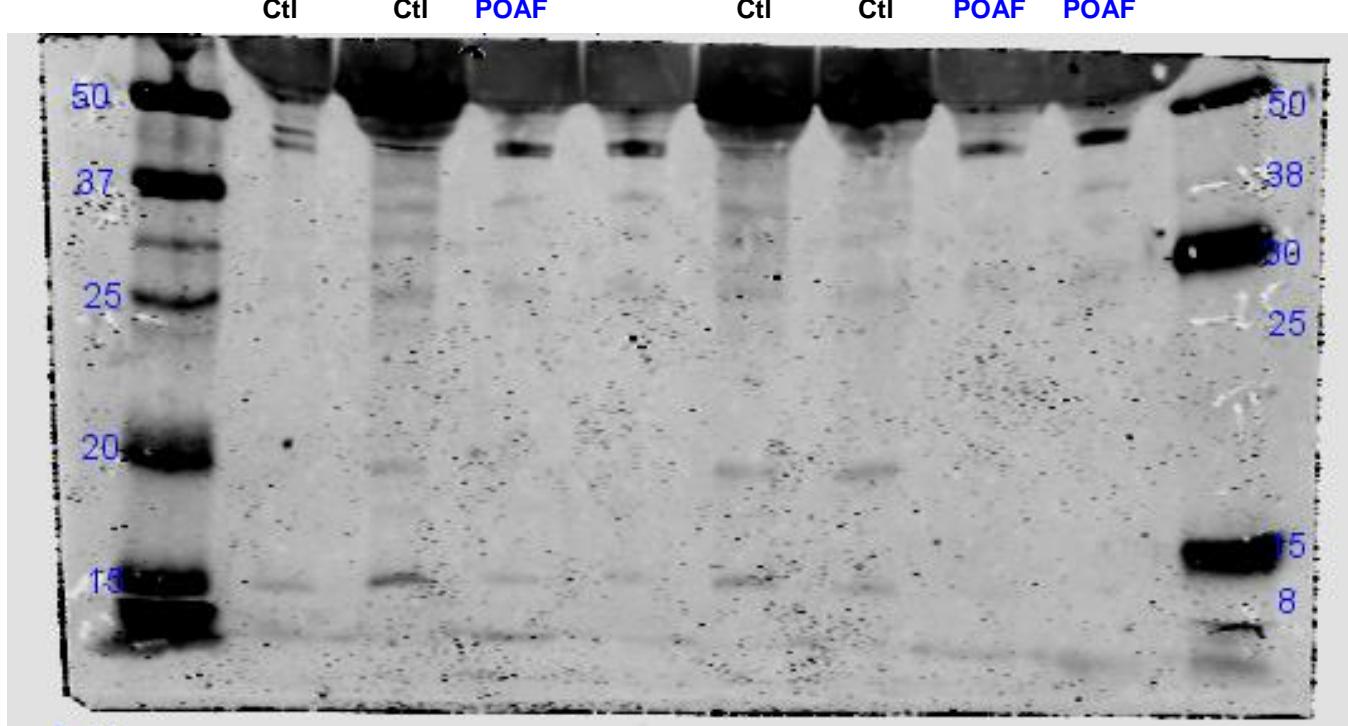


Figure 6D – Human atrial cardiomyocytes

(Pro-)Interleukin-1 β 

Ponceau

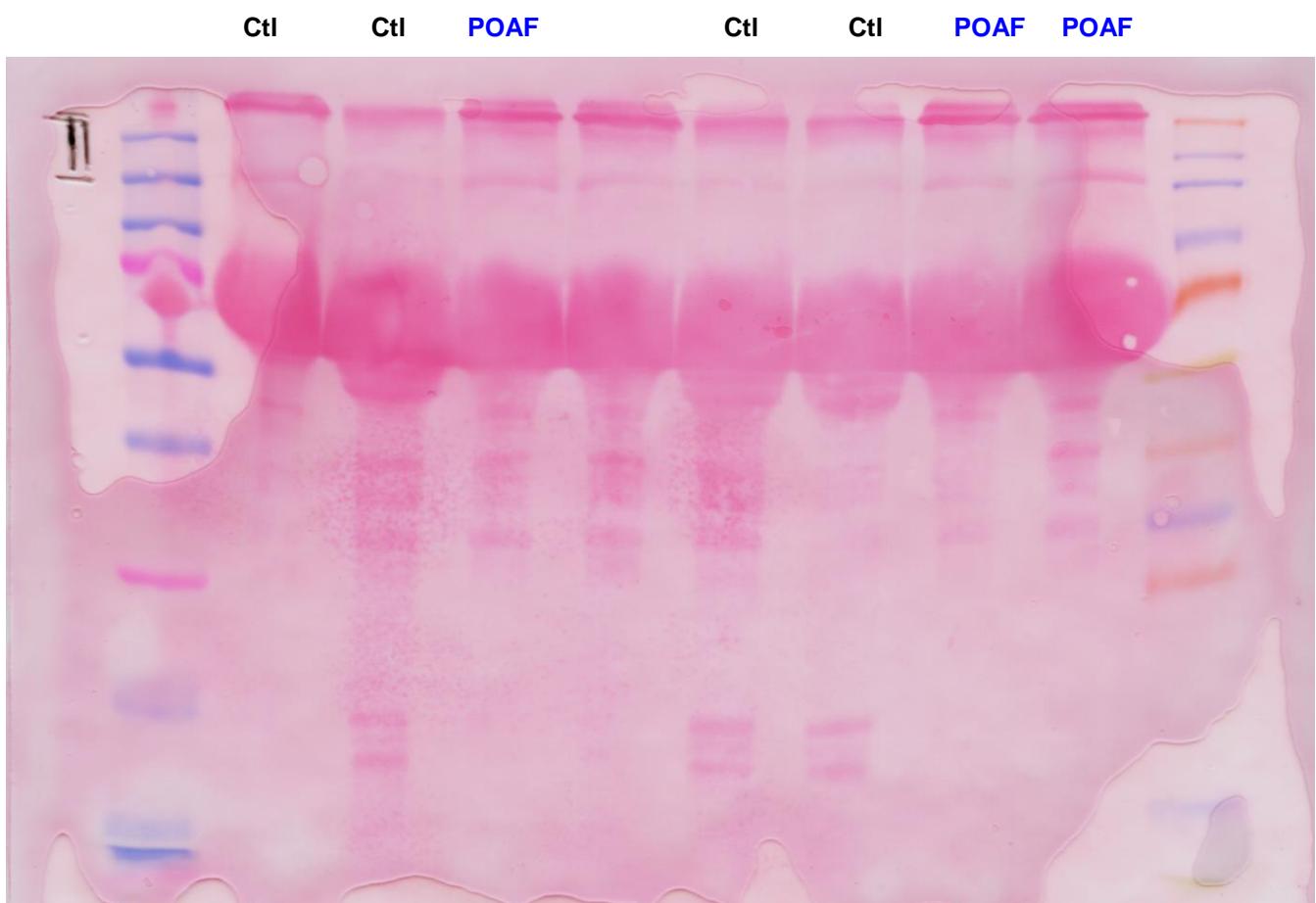
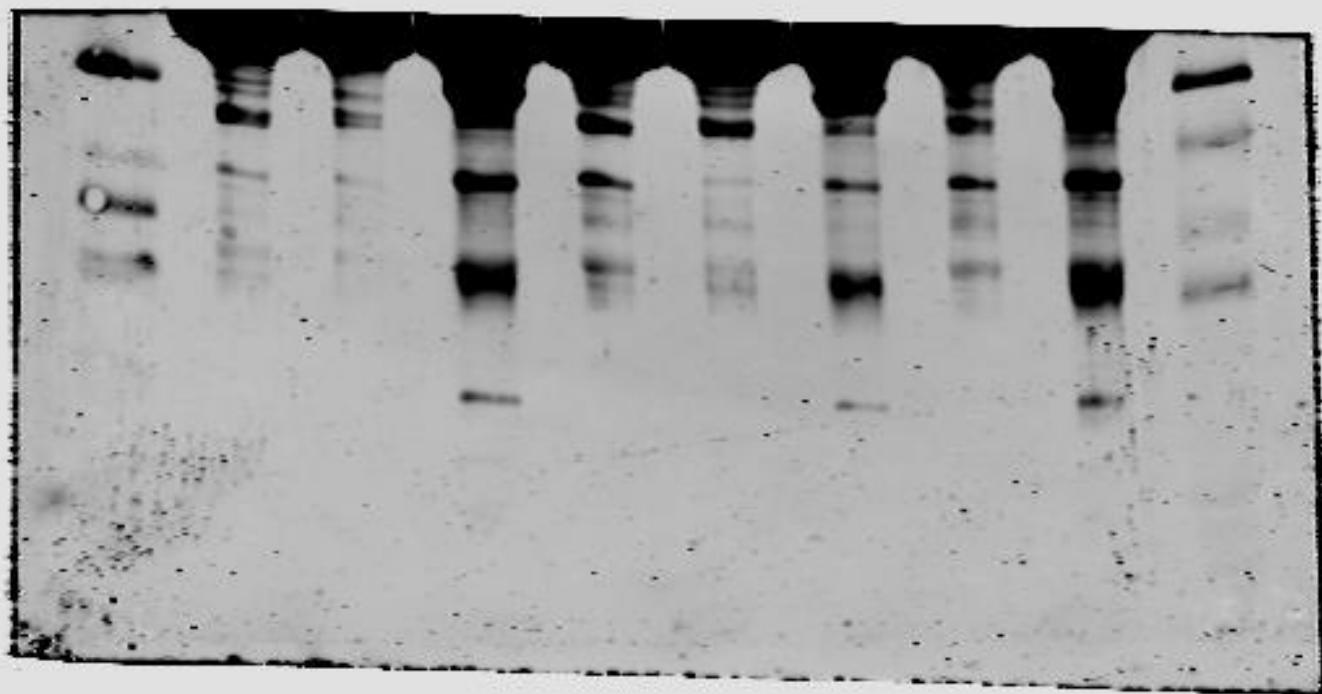


Figure 6D – Human atrial cardiomyocytes

(Pro-)Interleukin-1 β

Ctl Ctl POAF POAF Ctl Ctl POAF POAF



Ponceau

Ctl Ctl POAF POAF Ctl Ctl POAF POAF

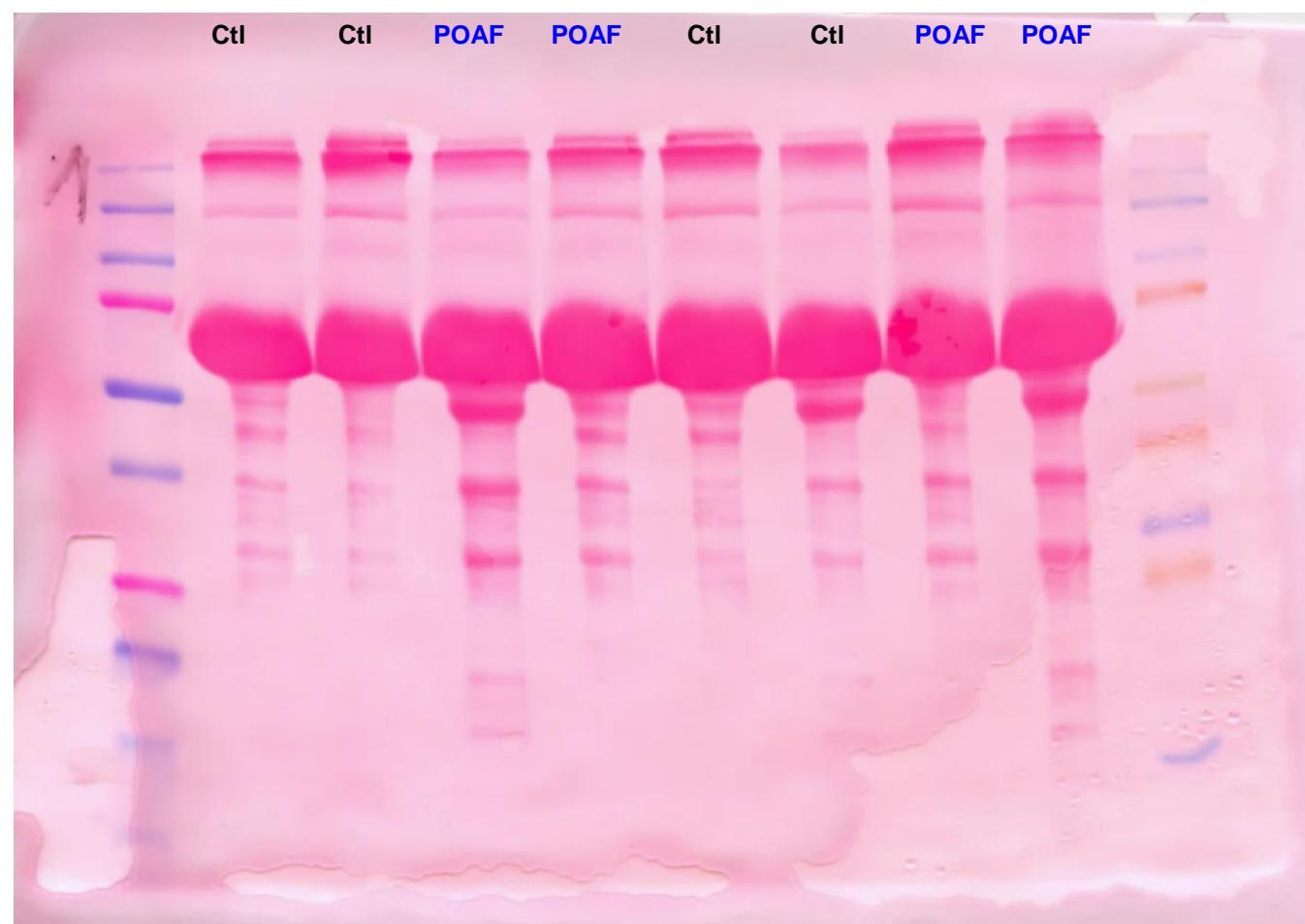
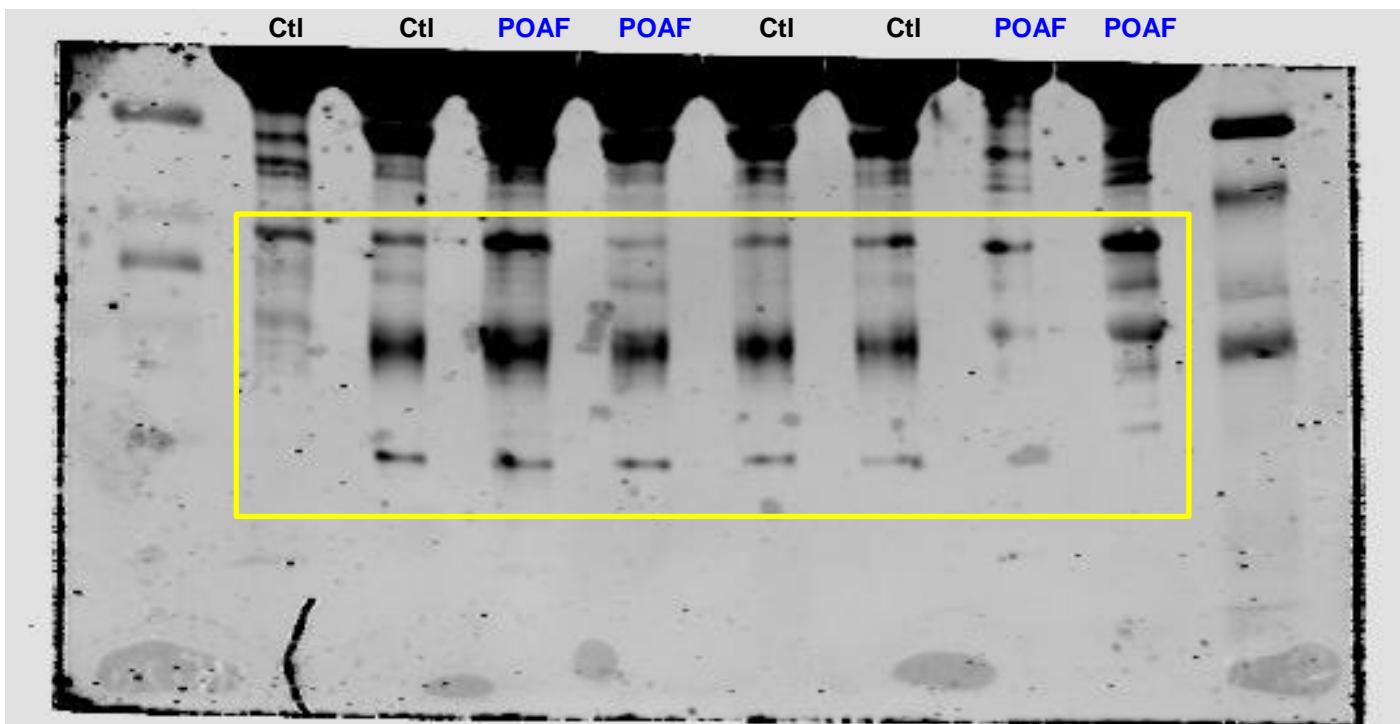


Figure 6D – Human atrial cardiomyocytes

(Pro-)Interleukin-1 β 

Ponceau

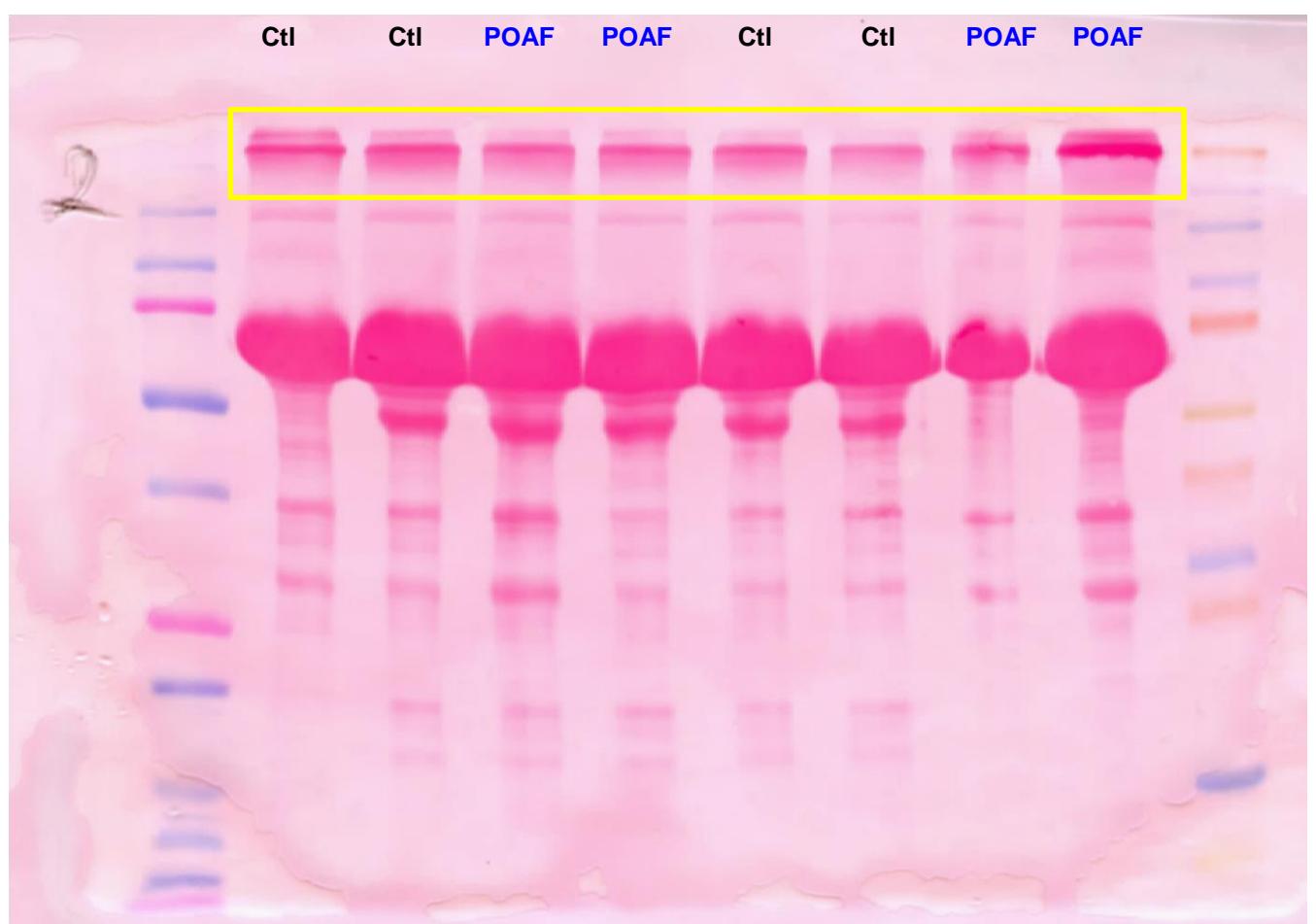


Figure 6D – Human atrial cardiomyocytes

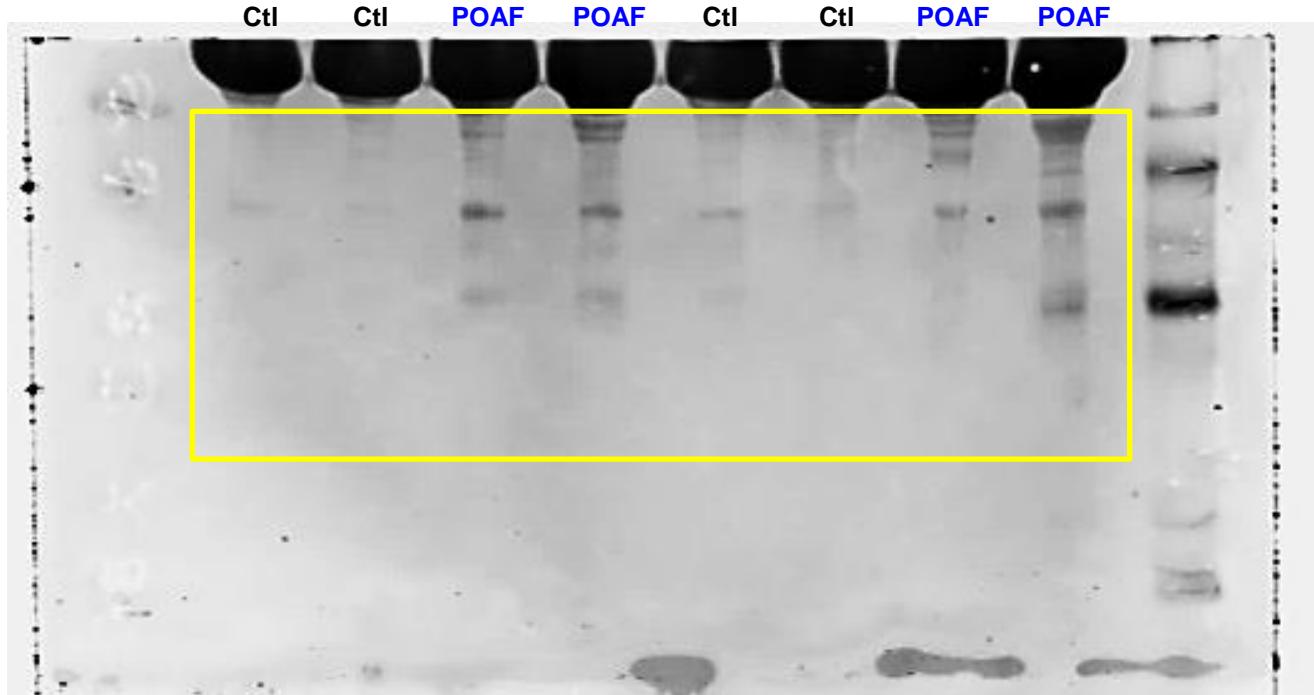
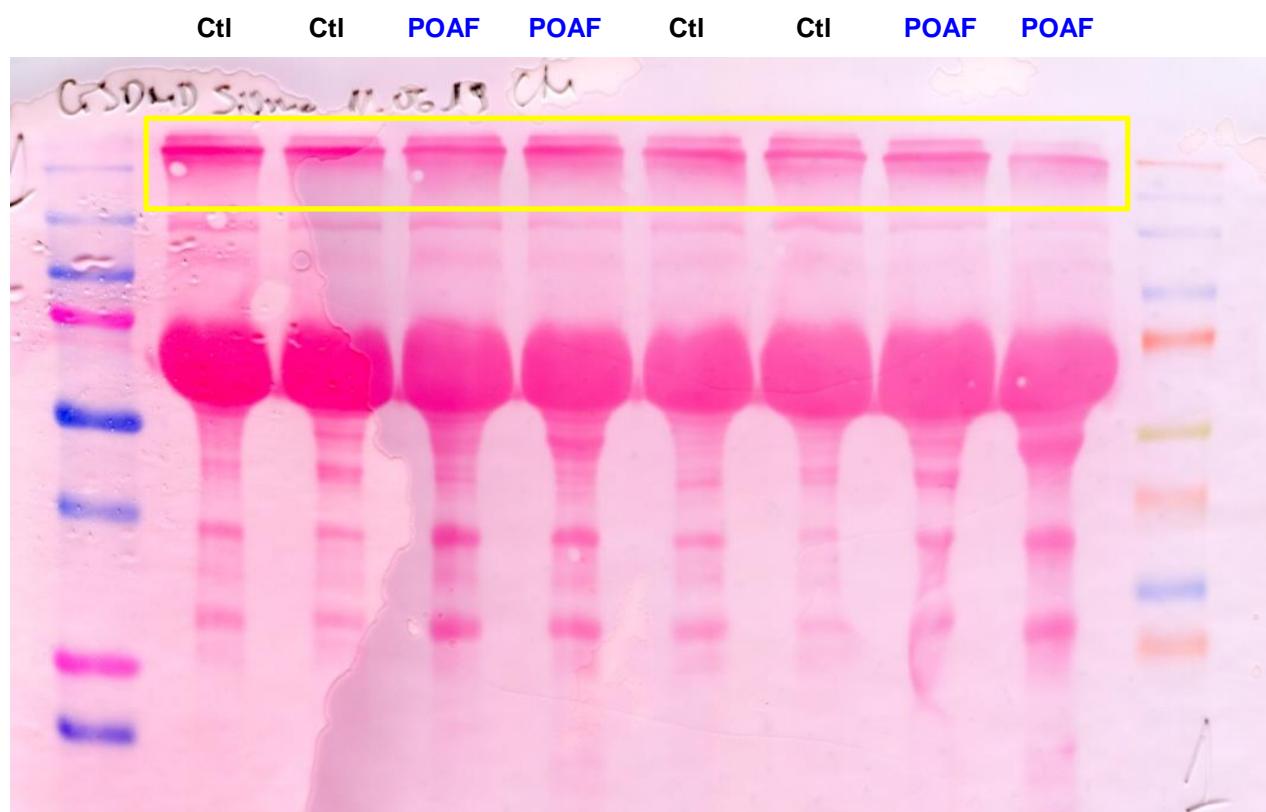
Gasdermin-D**Ponceau**

Figure 6E – Human atrial cardiomyocytes

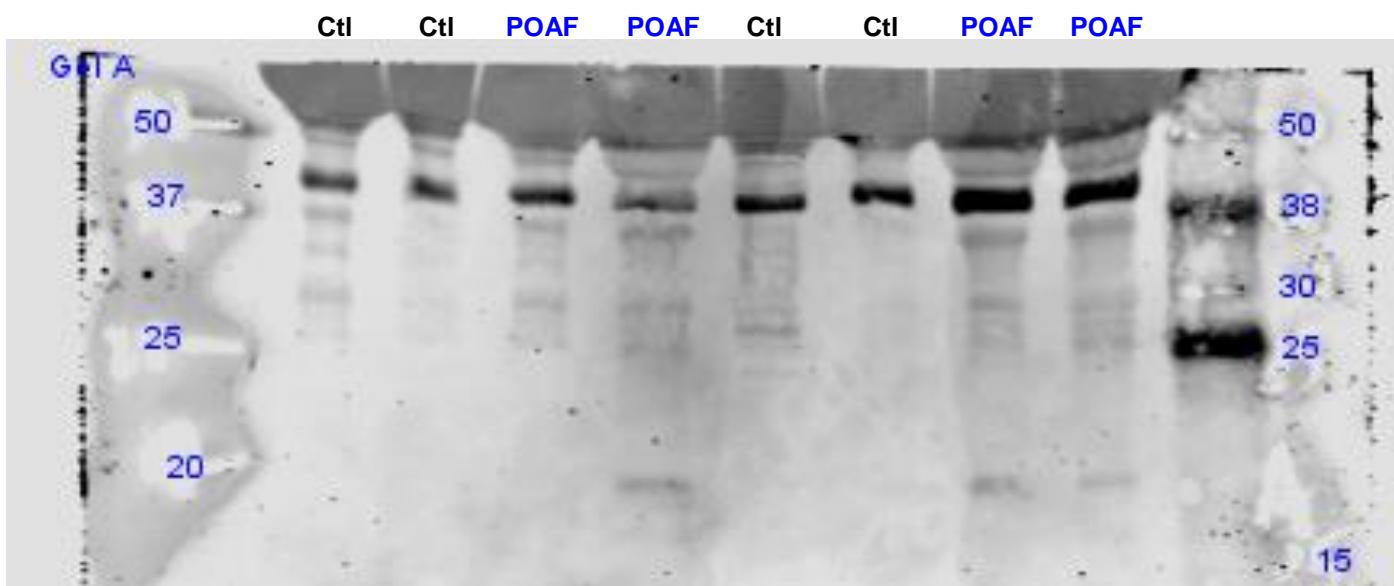
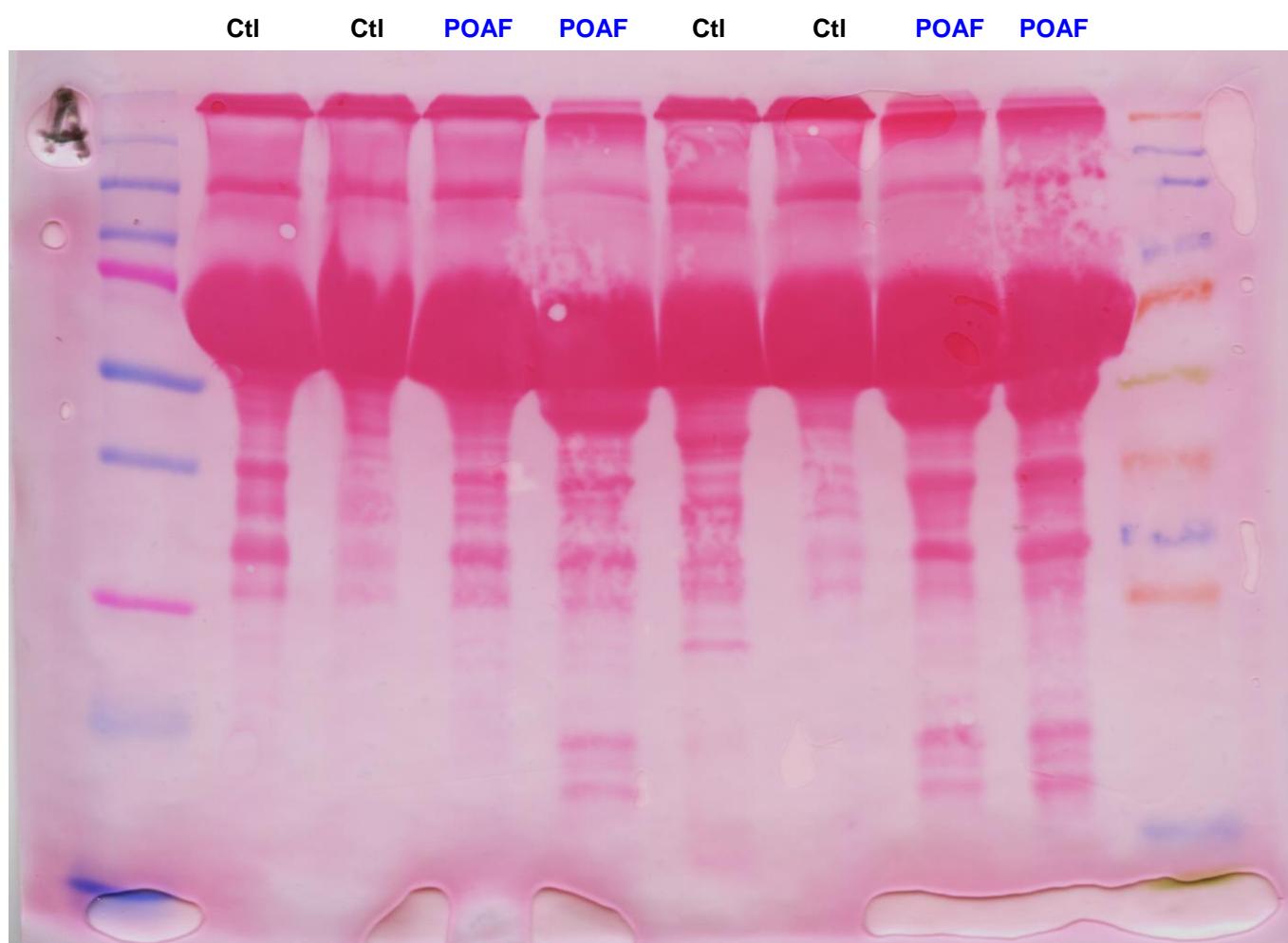
Gasdermin-D**Ponceau**

Figure 6E – Human atrial cardiomyocytes

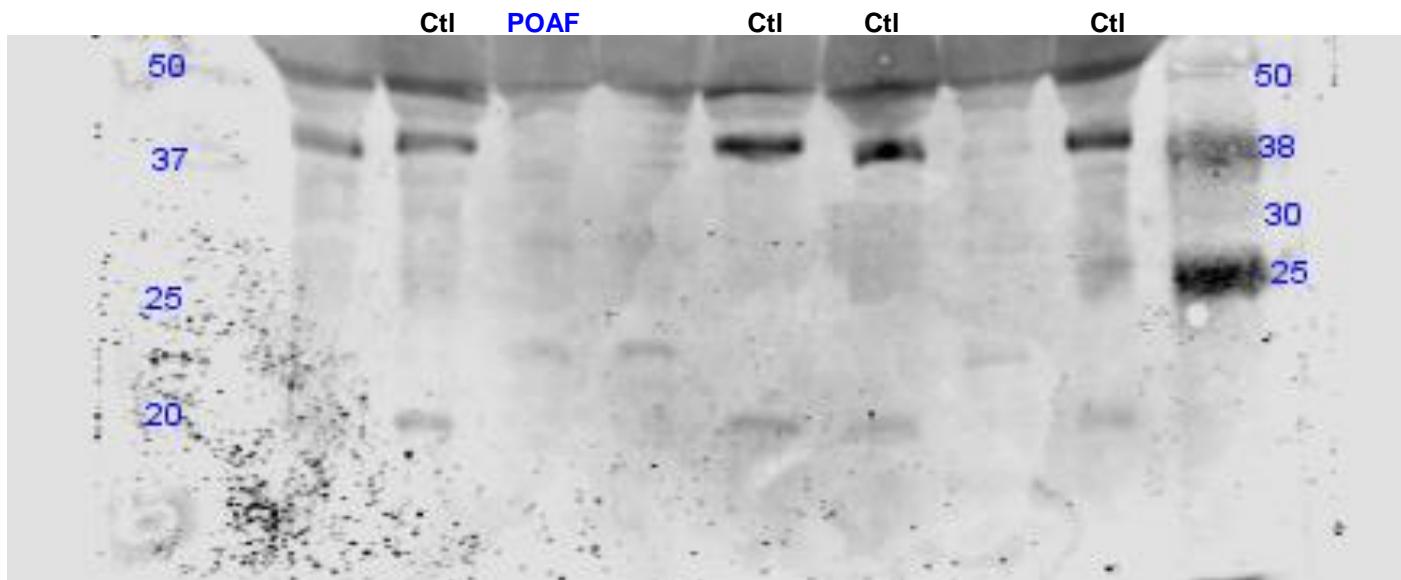
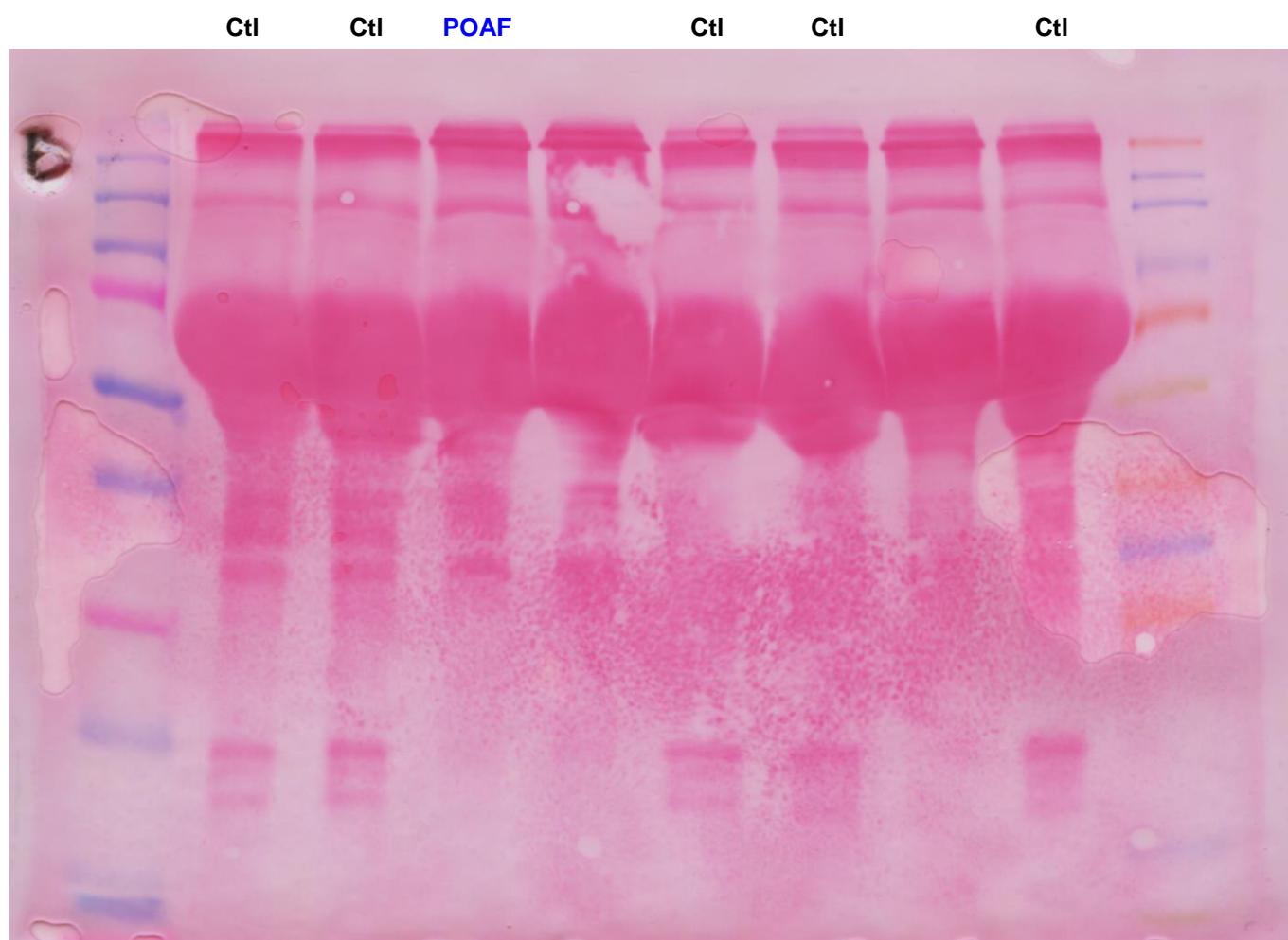
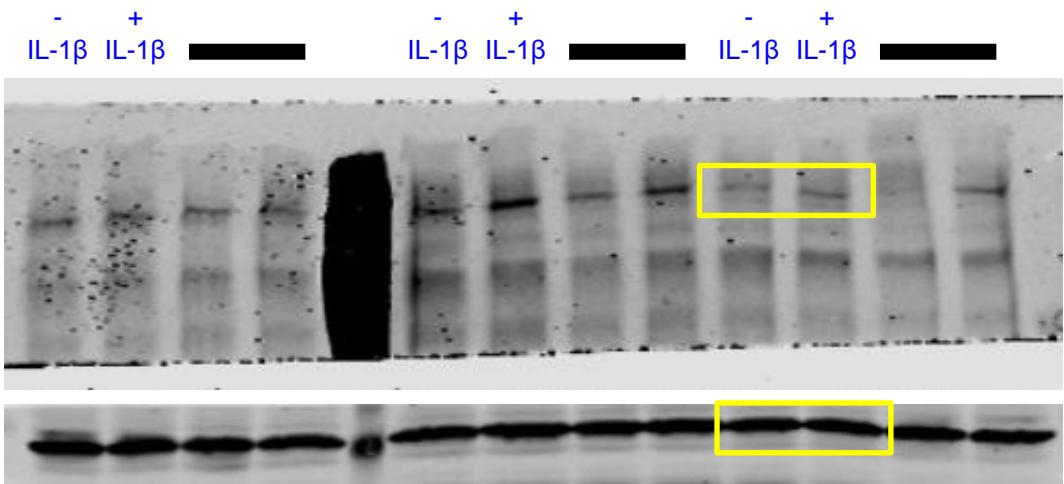
Gasdermin-D**Ponceau**

Figure 6E – Human atrial cardiomyocytes

Ser2808-RyR2 (-IL-1 β vs. IL-1 β)

Gel 1 / 4



Gel 2 / 4

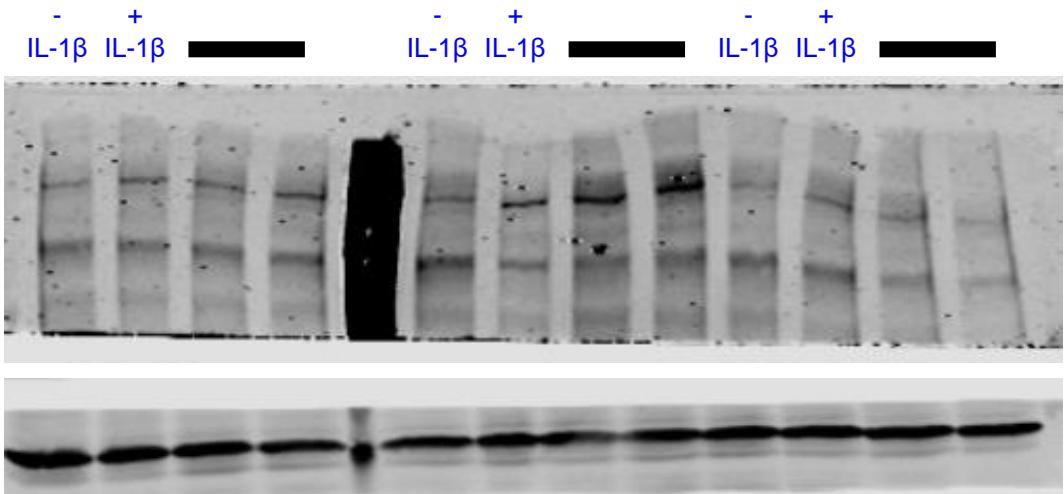


Figure 8B – HL1 cells

■ Excluded from this analysis

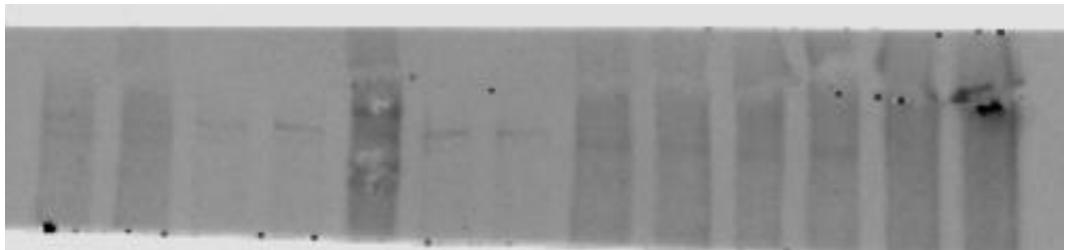
Ser2808-RyR2 (-IL-1 β vs. IL-1 β)

Gel 3 / 4

- + - + - +

IL-1 β IL-1 β IL-1 β IL-1 β

Ser2808
-RyR2



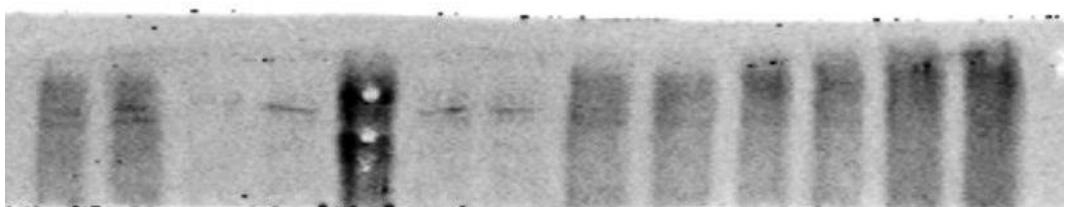
GAPDH

Gel 4 / 4

- + - + - +

IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β

Ser2808
-RyR2



GAPDH

■ Excluded from this analysis

Figure 8B – HL1 cells

Ser2808-RyR2 (KN-92 vs. KN-93)

Gel 1 / 5

KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

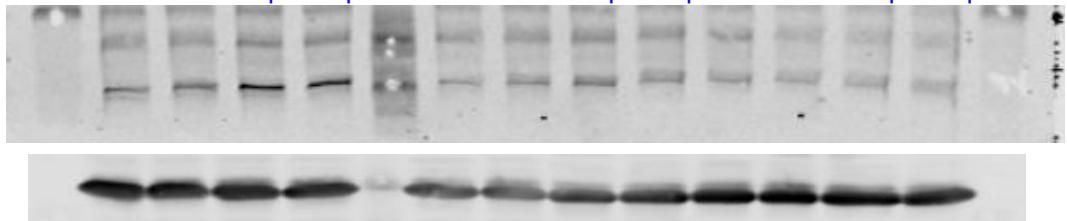
KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

Ser2808
-RyR2



GAPDH

Gel 2 / 5

KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

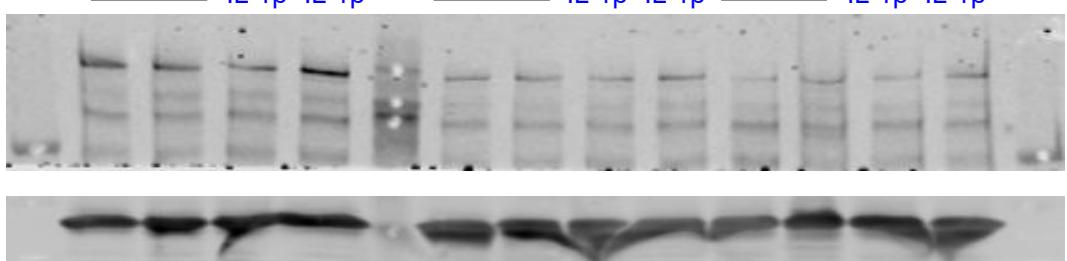
KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

Ser2808
-RyR2



GAPDH

Gel 3 / 5

KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

KN-
93 +
IL-1 β

KN-
92 +
IL-1 β

Ser2808
-RyR2



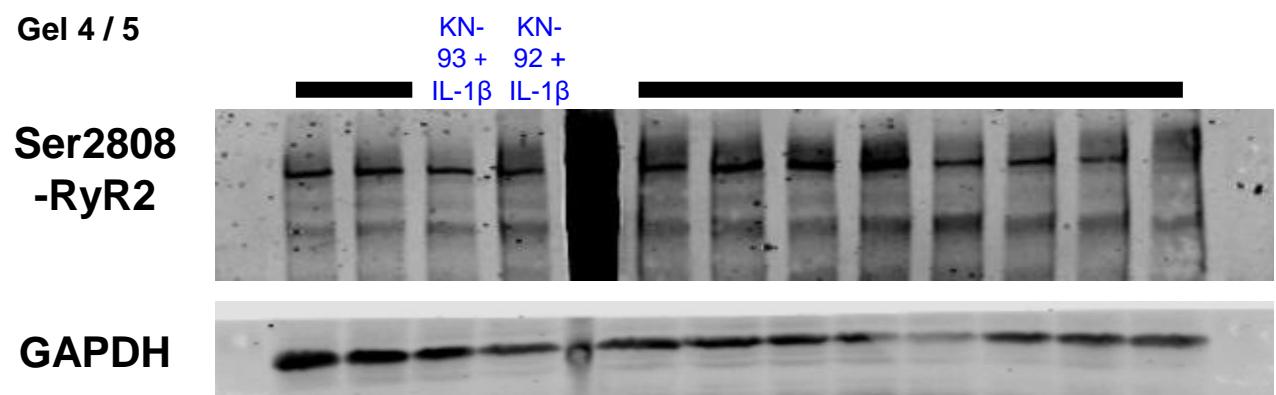
GAPDH

■ Excluded from this analysis

Figure 8B – HL1 cells

Ser2808-RyR2 (KN-92 vs. KN-93)

Gel 4 / 5



Gel 5 / 5

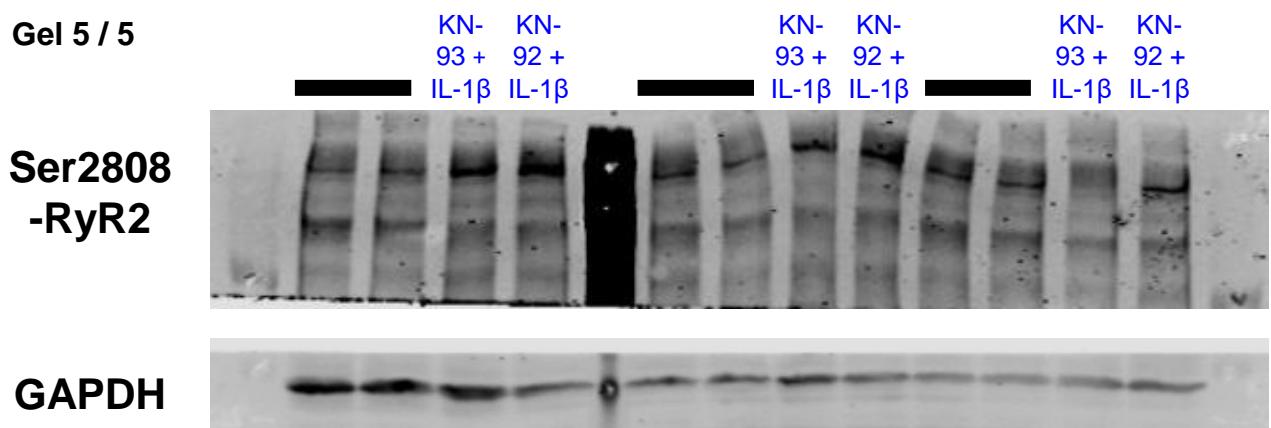


Figure 8B – HL1 cells

■ Excluded from this analysis

Ser2814-RyR2 (-IL-1 β vs. + IL-1 β)

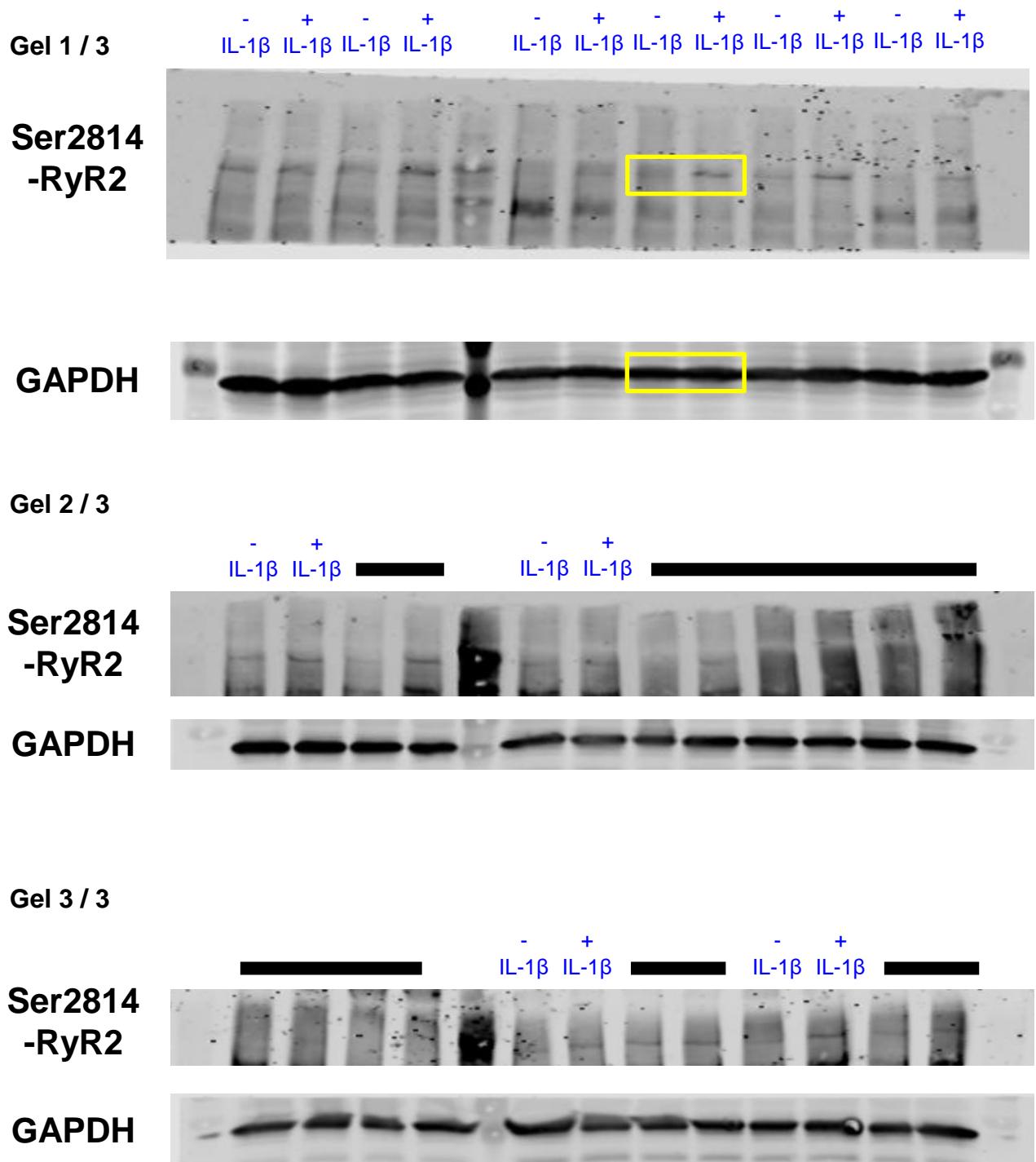


Figure 8B – HL1 cells

— Excluded from this analysis

Ser2814-RyR2 (KN-92 vs. KN-93)

Gel 1 / 4

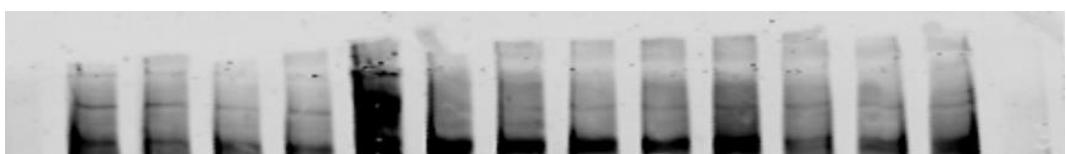
KN- KN-
93 + 92 +

IL-1 β IL-1 β

KN- KN-
93 + 92 +

IL-1 β IL-1 β

Ser2814
-RyR2



Gel 2 / 4

KN- KN-
93 + 92 +

IL-1 β IL-1 β

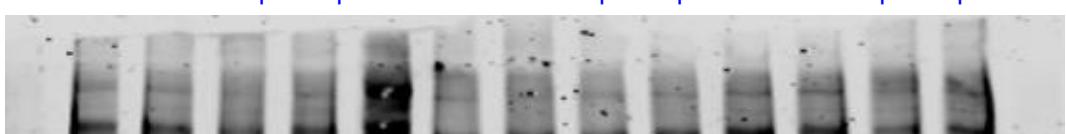
KN- KN-
93 + 92 +

IL-1 β IL-1 β

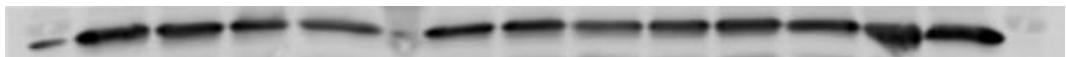
KN- KN-
93 + 92 +

IL-1 β IL-1 β

Ser2814
-RyR2



GAPDH



Gel 3 / 4

KN- KN-
92 + 93 +

IL-1 β IL-1 β

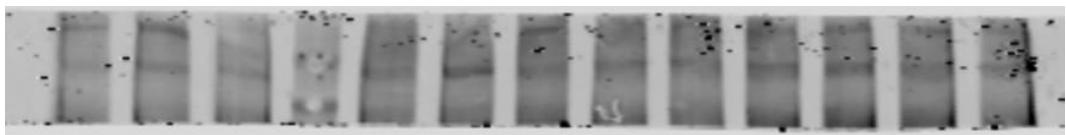
KN- KN-
92 + 93 +

IL-1 β IL-1 β

KN- KN-
92 + 93 +

IL-1 β IL-1 β

Ser2814
-RyR2



GAPDH



Gel 4 / 4

KN- KN-
92 + 93 +

IL-1 β IL-1 β

KN- KN-
92 + 93 +

IL-1 β IL-1 β

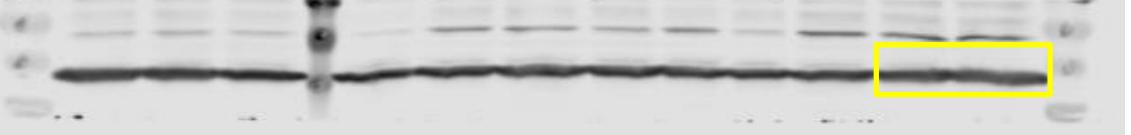
KN- KN-
92 + 93 +

IL-1 β IL-1 β

Ser2814
-RyR2



GAPDH

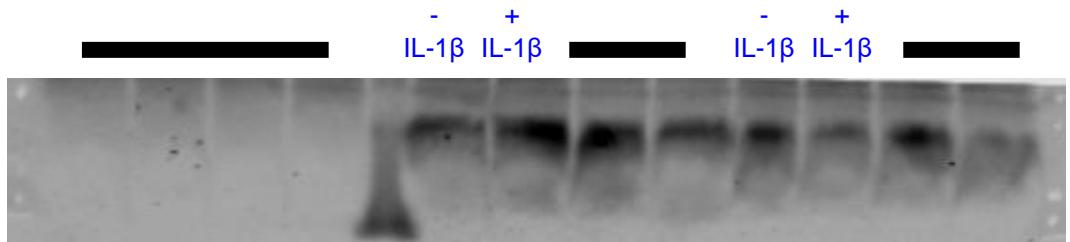


Excluded from this analysis

Figure 8B – HL1 cells

Ser16-PLB (-IL-1 β vs. + IL-1 β)

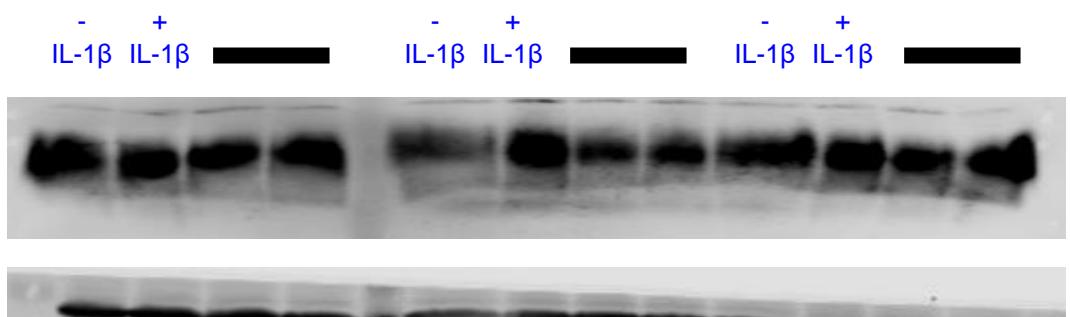
Gel 1 / 5



GAPDH



Gel 2 / 5



Gel 3 / 5

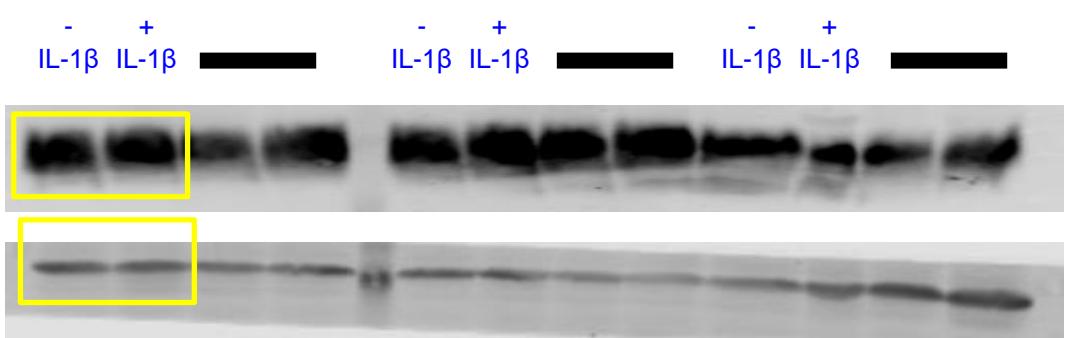
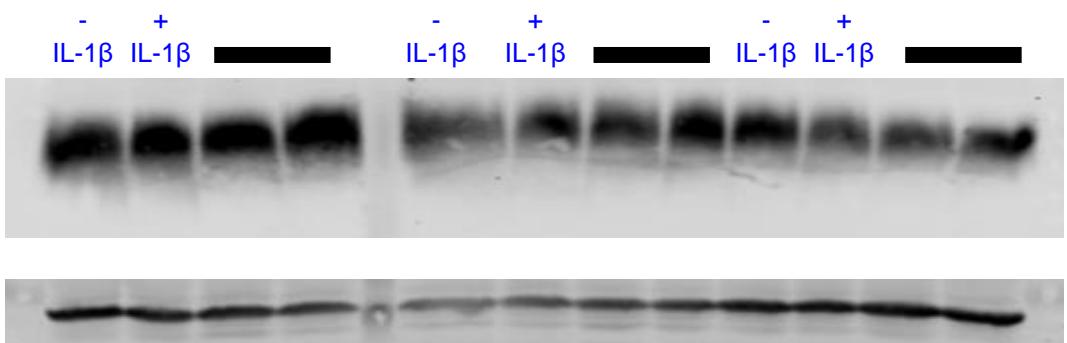


Figure 8B – HL1 cells

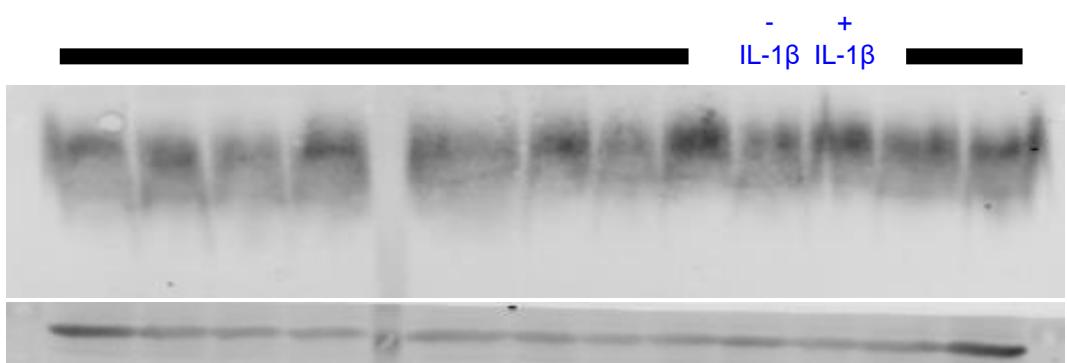
■ Excluded from this analysis

Ser16-PLB (-IL-1 β vs. + IL-1 β)

Gel 4 / 5



Gel 5 / 5

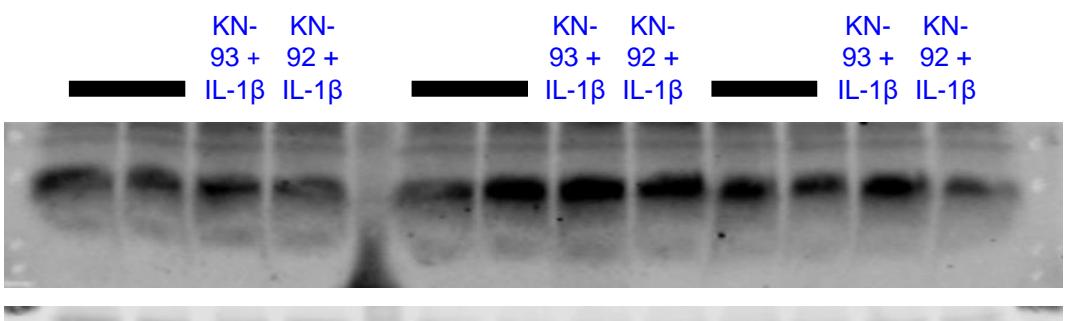


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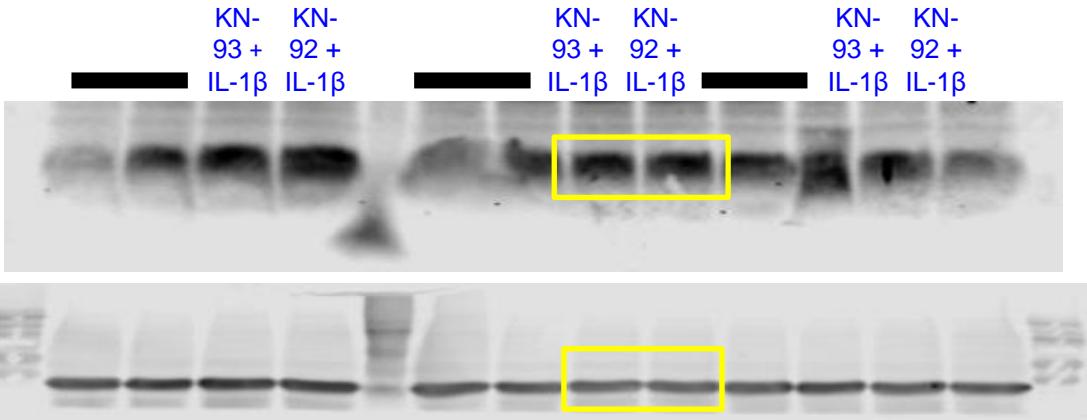
Figure 8B – HL1 cells

Ser16-PLB (KN-92 vs. KN-93)

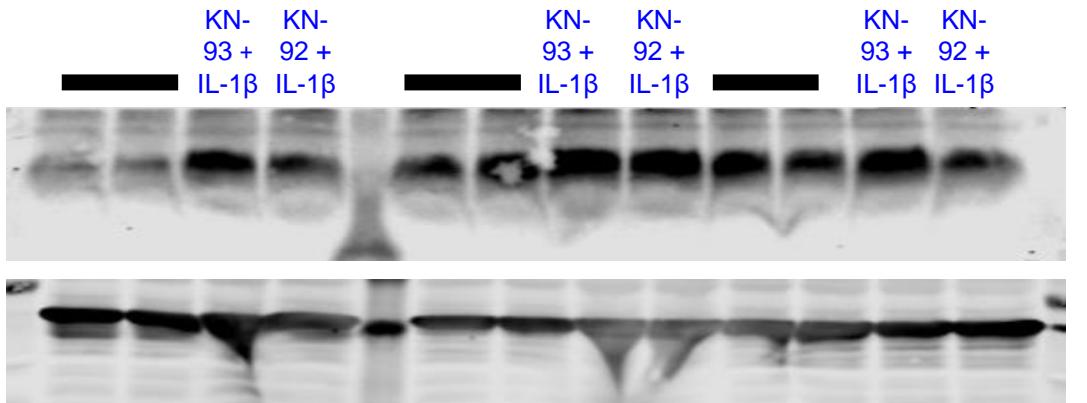
Gel 1 / 4



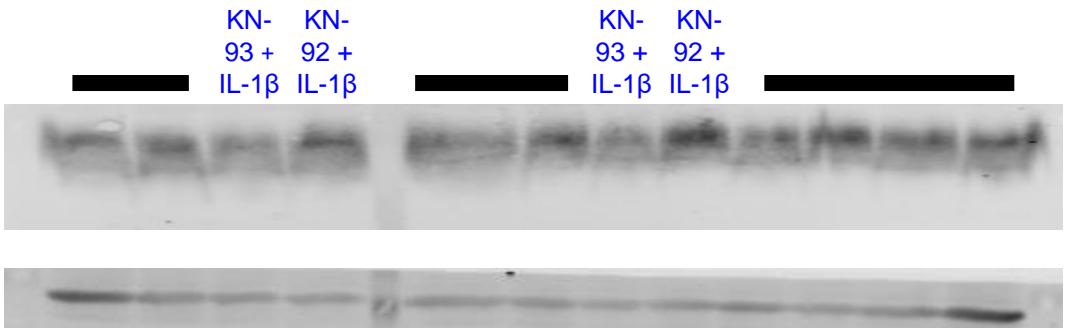
Gel 2 / 4



Gel 3 / 4



Gel 4 / 4



■ Excluded from this analysis

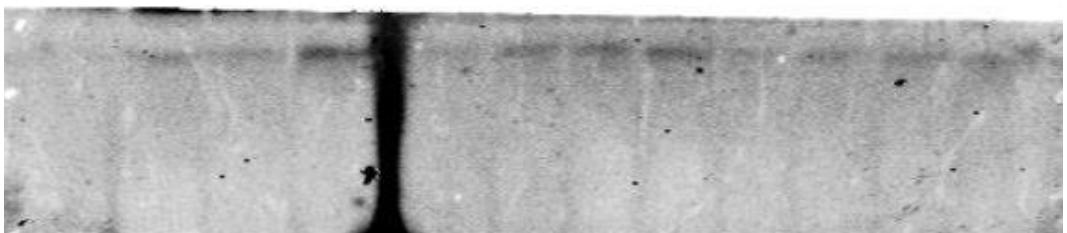
Figure 8B – HL1 cells

Thr17-PLB (-IL-1 β vs. + IL-1 β)

Gel 1 / 5

-	+		-	+		-	+	
IL-1 β	IL-1 β	[Excluded]	IL-1 β	IL-1 β	[Excluded]	IL-1 β	IL-1 β	[Excluded]

Thr17
-PLB



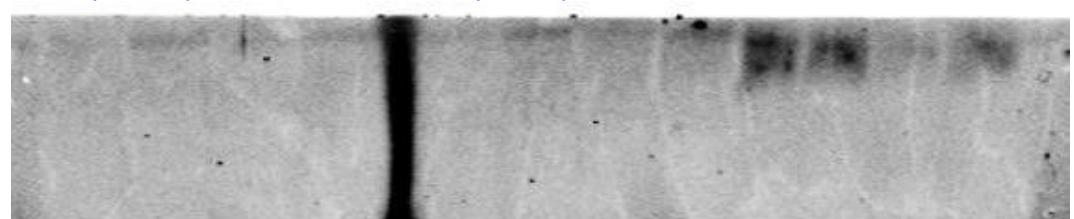
GAPDH



Gel 2 / 5

-	+		-	+	
IL-1 β	IL-1 β	[Excluded]	IL-1 β	IL-1 β	[Excluded]

Thr17
-PLB



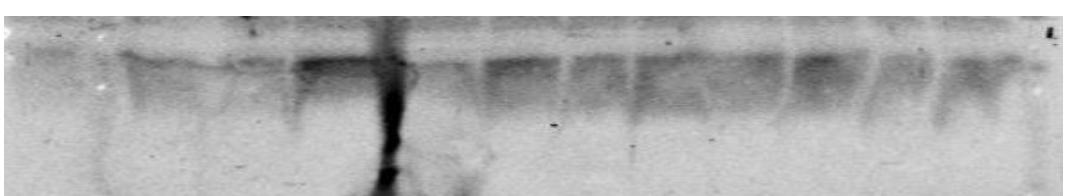
GAPDH



Gel 3 / 5

-	+		-	+		-	+	
IL-1 β	IL-1 β	[Excluded]	IL-1 β	IL-1 β	[Excluded]	IL-1 β	IL-1 β	[Excluded]

Thr17
-PLB



GAPDH

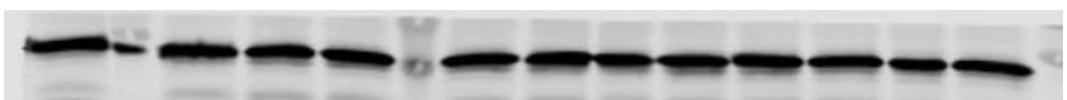


Figure 8B – HL1 cells

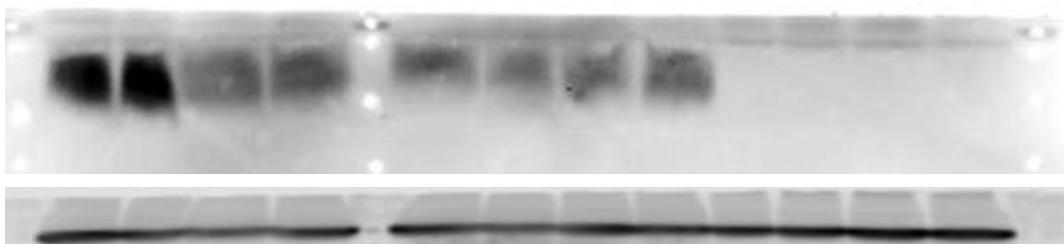
■ Excluded from this analysis

Thr17-PLB (-IL-1 β vs. + IL-1 β)

Gel 4 / 5

-	+	-	+	-	+	-	+	
IL-1 β	Excluded from this analysis							

Thr17
-PLB

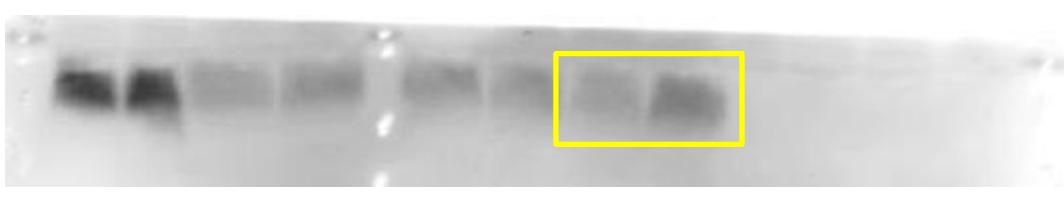


GAPDH

Gel 5 / 5

■	-	+	-	+	-	+	
■	IL-1 β	Excluded from this analysis					

Thr17
-PLB



GAPDH



Figure 8B – HL1 cells

■ Excluded from this analysis

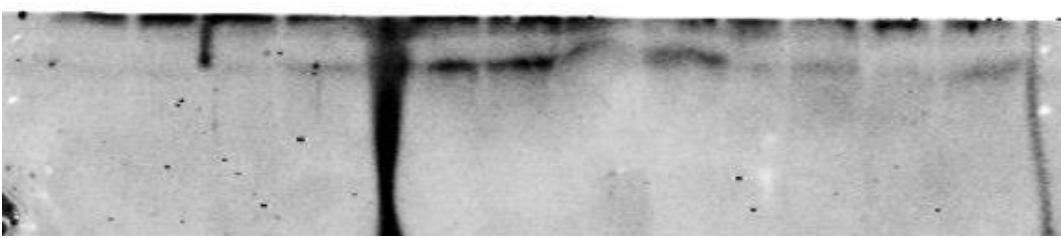
Thr17-PLB (KN-92 vs. KN-93)

Gel 1 / 4

KN- KN-
93 + 92 +
IL-1 β IL-1 β

KN- KN-
93 + 92 +
IL-1 β IL-1 β

Thr17
-PLB



GAPDH

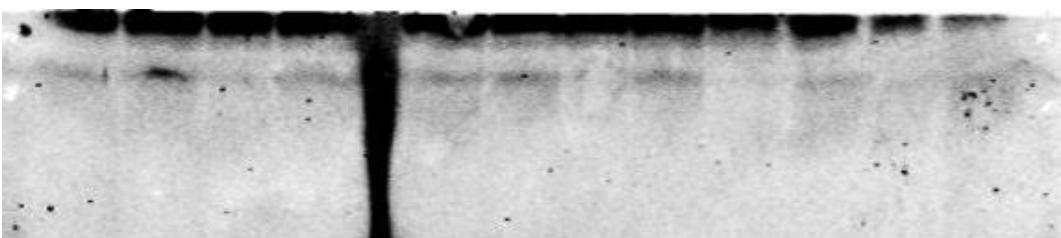
Gel 2 / 4

KN- KN-
93 + 92 +
IL-1 β IL-1 β

KN- KN-
93 + 92 +
IL-1 β IL-1 β

KN- KN-
93 + 92 +
IL-1 β IL-1 β

Thr17
-PLB



GAPDH

Gel 3 / 4

KN- KN-
92 + 93 +
IL-1 β IL-1 β

KN- KN-
92 + 93 +
IL-1 β IL-1 β

KN- KN-
92 + 93 +
IL-1 β IL-1 β

KN- KN-
92 + 93 +
IL-1 β IL-1 β

Thr17
-PLB



GAPDH

Gel 4 / 4

KN- KN-
92 + 93 +
IL-1 β IL-1 β

KN- KN-
92 + 93 +
IL-1 β IL-1 β

KN- KN-
92 + 93 +
IL-1 β IL-1 β

Thr17
-PLB



GAPDH

— Excluded from this analysis

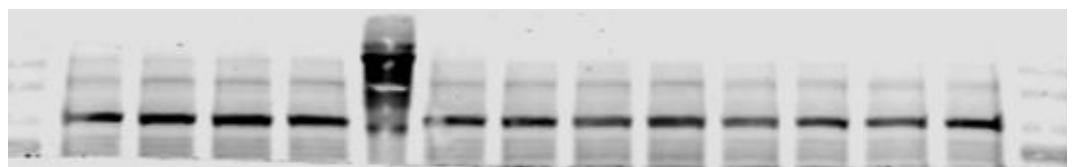
Figure 8B – HL1 cells

NLRP3 (-IL-1 β vs. + IL-1 β)

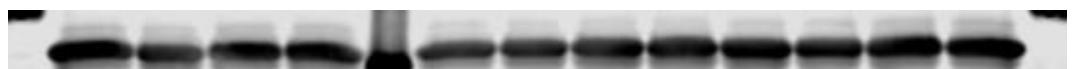
Gel 1 / 5

- + - + - + - +

IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β



GAPDH

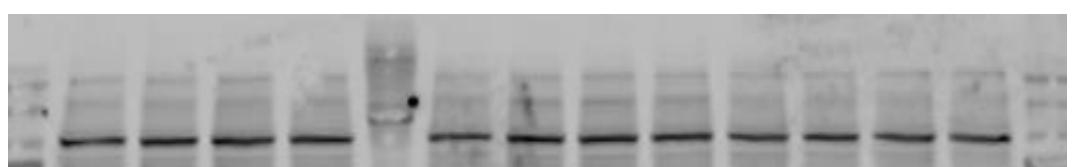


Gel 2 / 5

- + - + - + - +

IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β

NLRP3



GAPDH

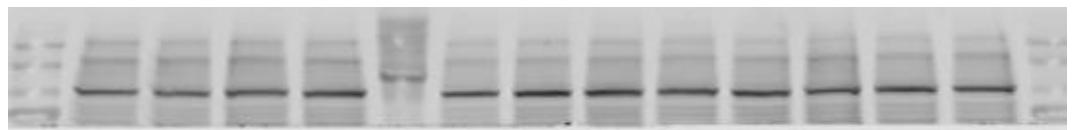


Gel 3 / 5

- + - + - + - +

IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β IL-1 β

NLRP3



GAPDH

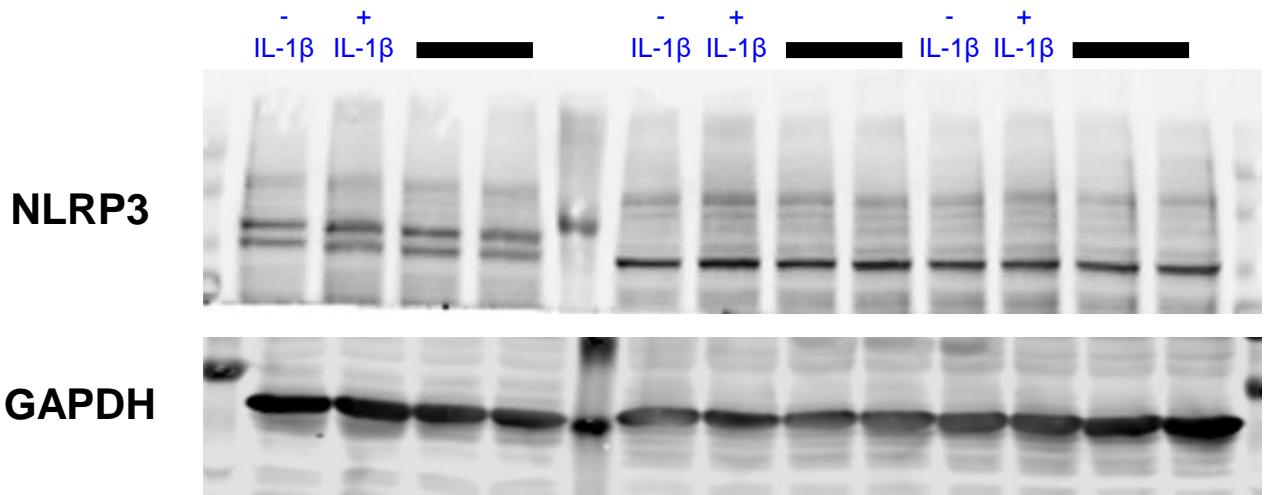


■ Excluded from this analysis

Figure 8E – HL1 cells

NLRP3 (-IL-1 β vs. + IL-1 β)

Gel 4 / 5



Gel 5 / 5

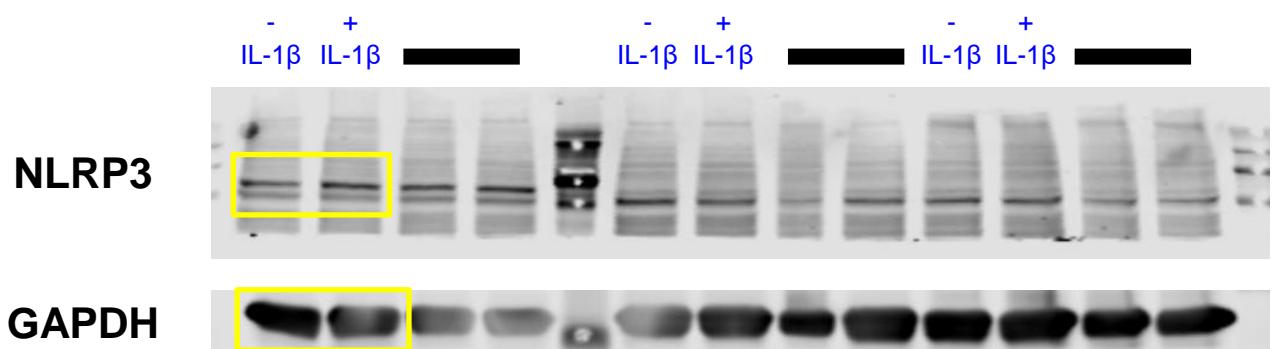


Figure 8E – HL1 cells

■ Excluded from this analysis

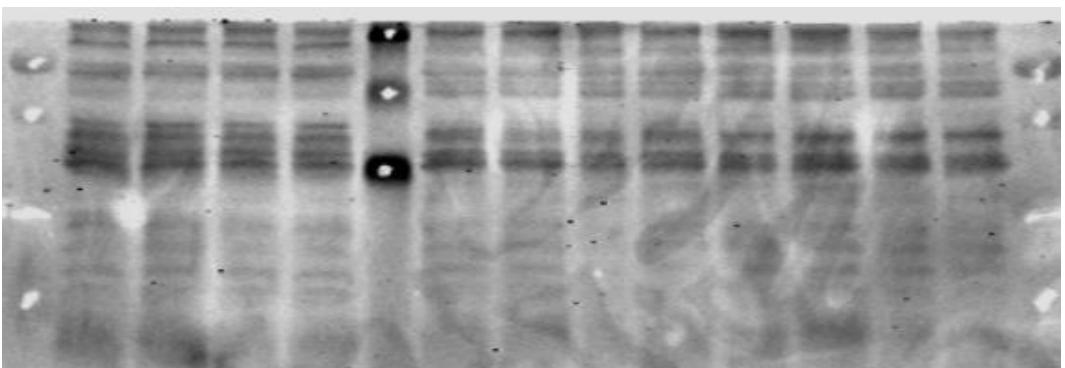
Pro-Caspase-1 & Caspase-1-p20 (-IL-1 β vs. + IL-1 β)

Gel 1 / 5

- +
IL-1 β IL-1 β

██████████

Pro-Casp1



GAPDH

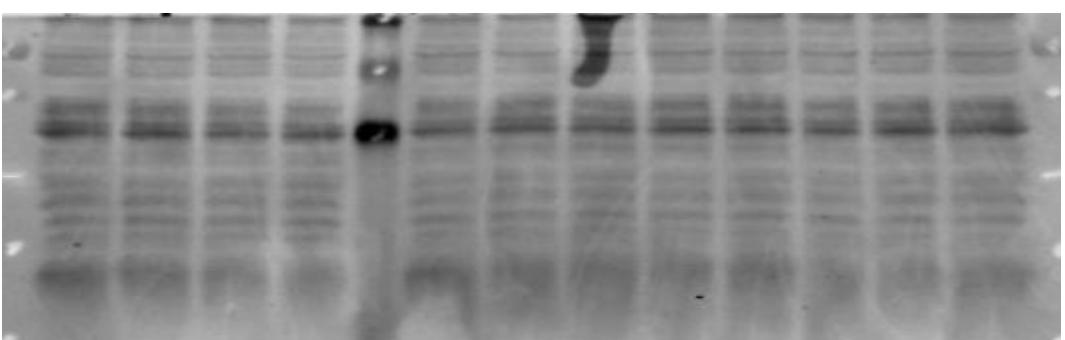
Gel 2 / 5

- +
IL-1 β IL-1 β

- +
IL-1 β IL-1 β

- +
IL-1 β IL-1 β

Pro-Casp1



Casp1-p20

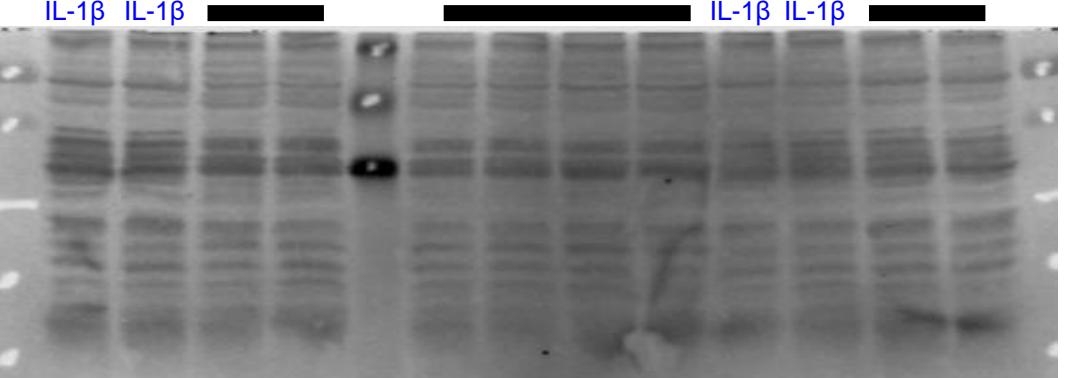
GAPDH

Gel 3 / 5

- +
IL-1 β IL-1 β

- +
IL-1 β IL-1 β

Pro-Casp1



Casp1-p20

GAPDH

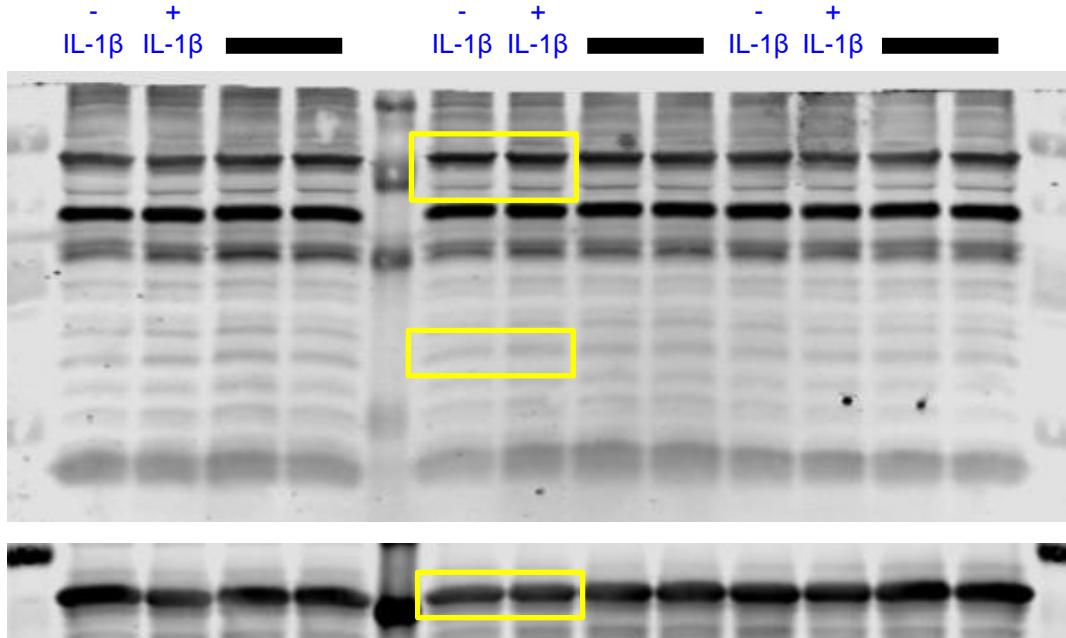


Excluded from this analysis

Figure 8E – HL1 cells

Pro-Caspase-1 & Caspase-1-p20 (-IL-1 β vs. + IL-1 β)

Gel 4 / 5



Gel 5 / 5

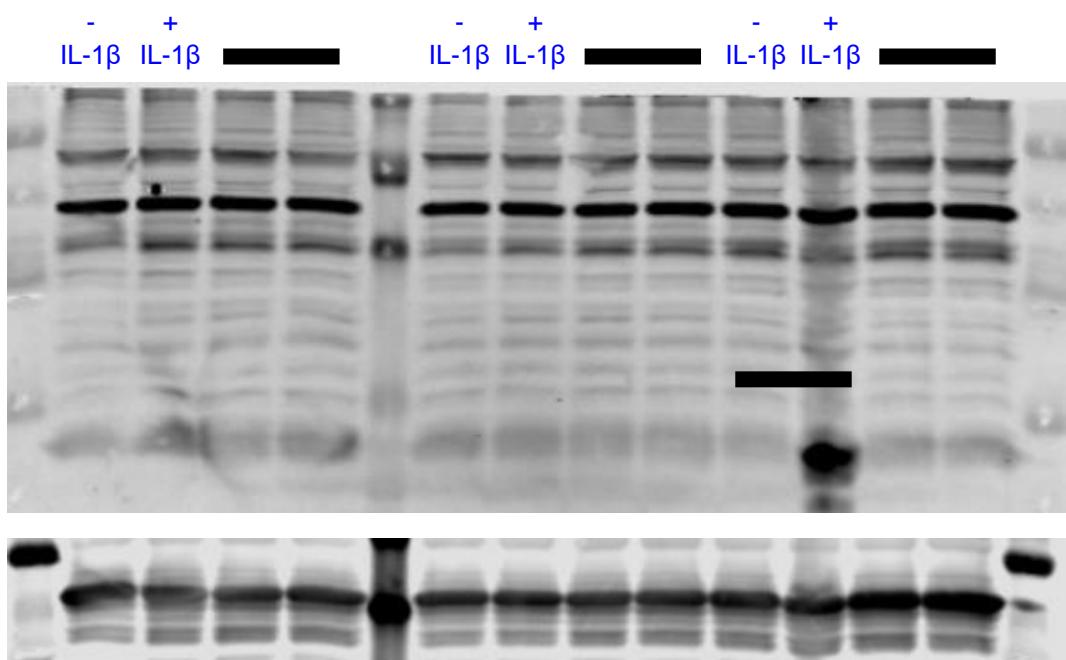


Figure 8E – HL1 cells

■ Excluded from this analysis

Pro-Caspase-1 & Caspase-1-p20 (KN-92 vs. + KN-93)

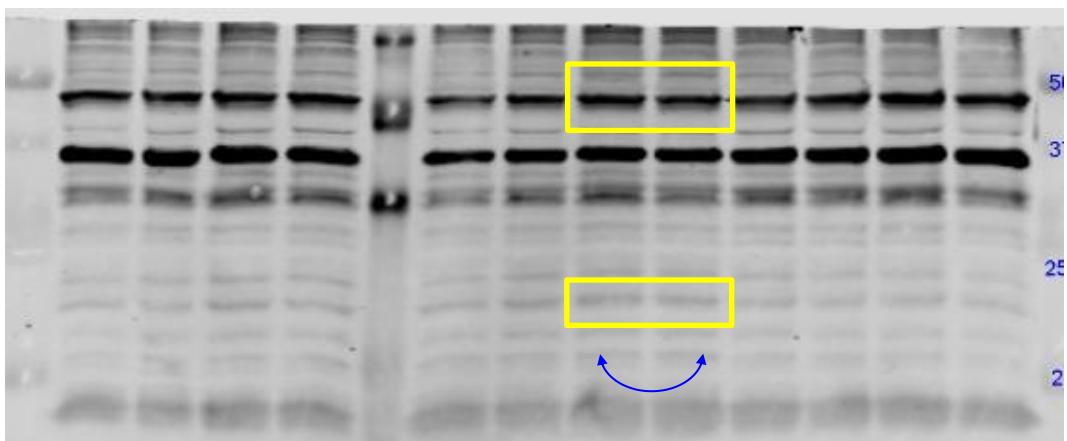
Gel 1 / 4

KN-
93 + KN-
92 +
IL-1 β

KN-
93 + KN-
92 +
IL-1 β

KN-
93 + KN-
92 +
IL-1 β

Pro-Casp1



Casp1-p20

GAPDH

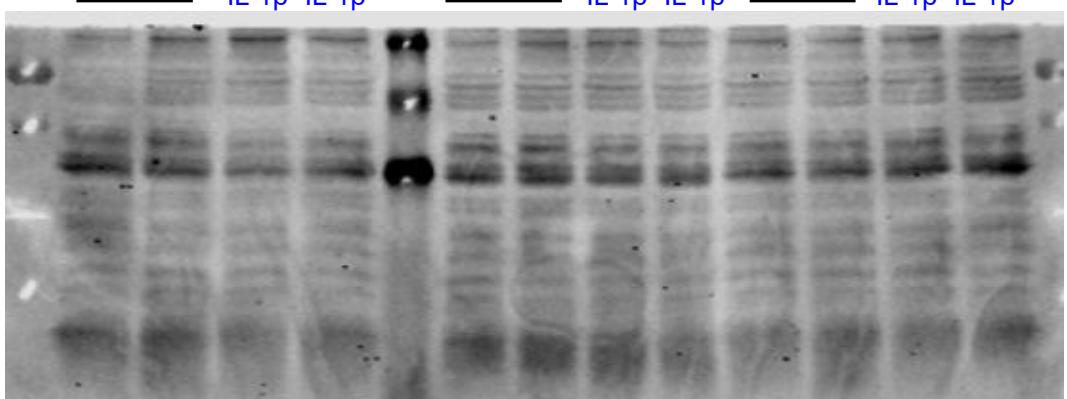
Gel 2 / 4

KN-
93 + KN-
92 +
IL-1 β

KN-
93 + KN-
92 +
IL-1 β

KN-
93 + KN-
92 +
IL-1 β

Pro-Casp1



Casp1-p20

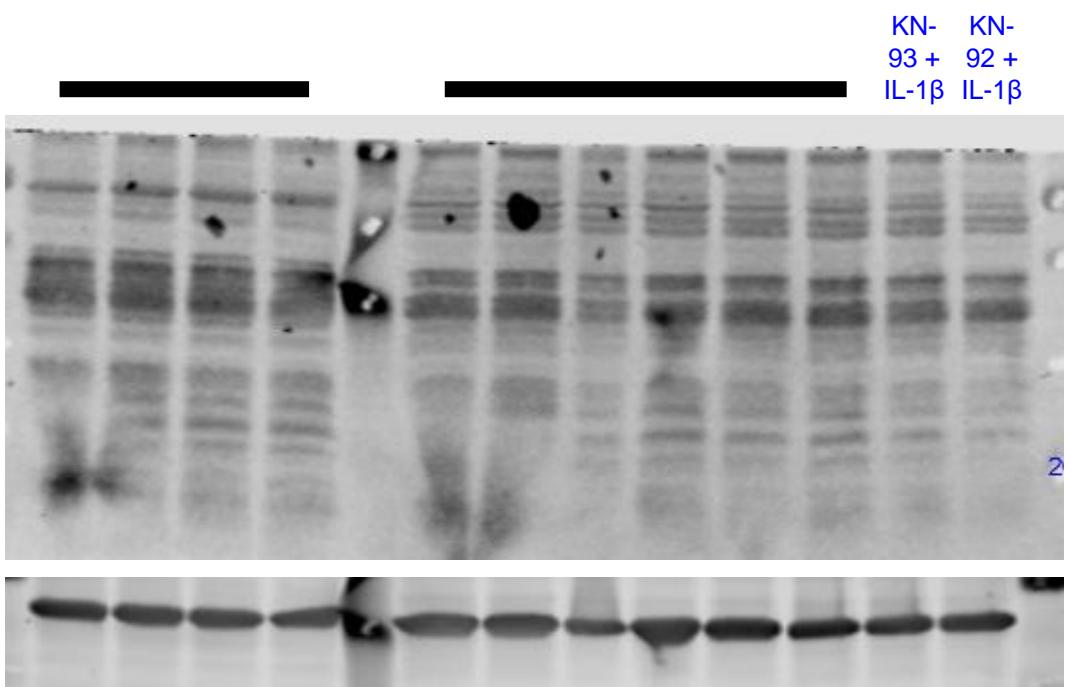
GAPDH

■ Excluded from this analysis

Figure 8E – HL1 cells

Pro-Caspase-1 & Caspase-1-p20 (KN-92 vs. + KN-93)

Gel 3 / 4



Gel 4 / 4

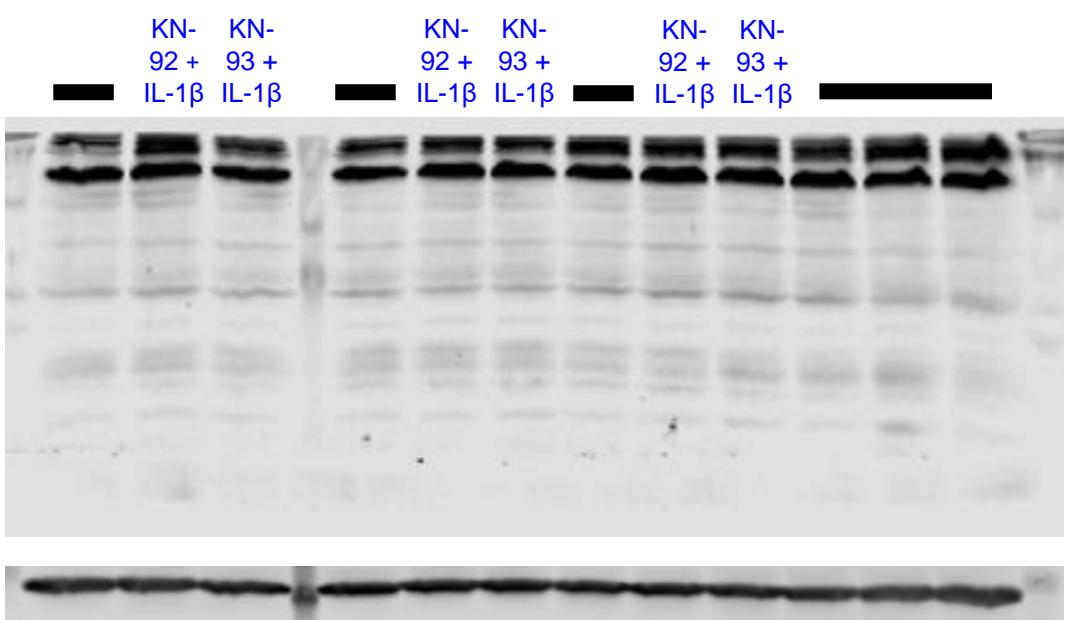


Figure 8E – HL1 cells

— Excluded from this analysis

Gasdermin-D (GSDMD) FL + NT (-IL-1 β vs. + IL-1 β)

Gel 1 / 4

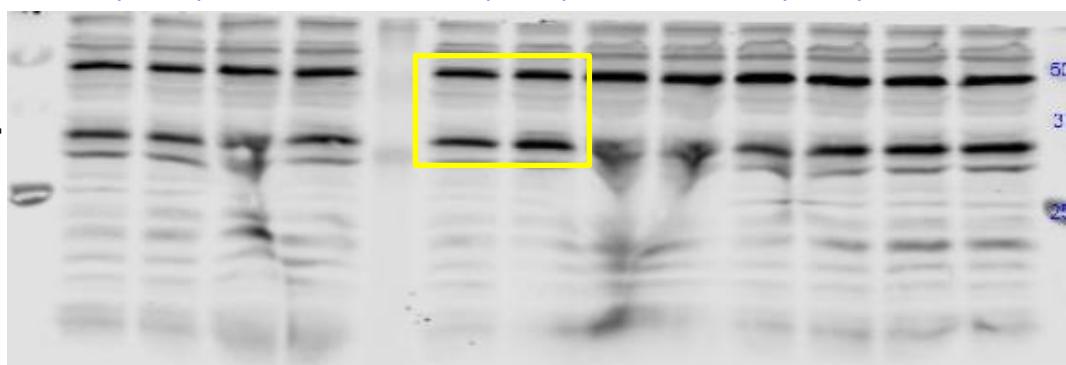
- +
IL-1 β IL-1 β

- +
IL-1 β IL-1 β

- +
IL-1 β IL-1 β

GSDMD-FL

GSDMD-NT



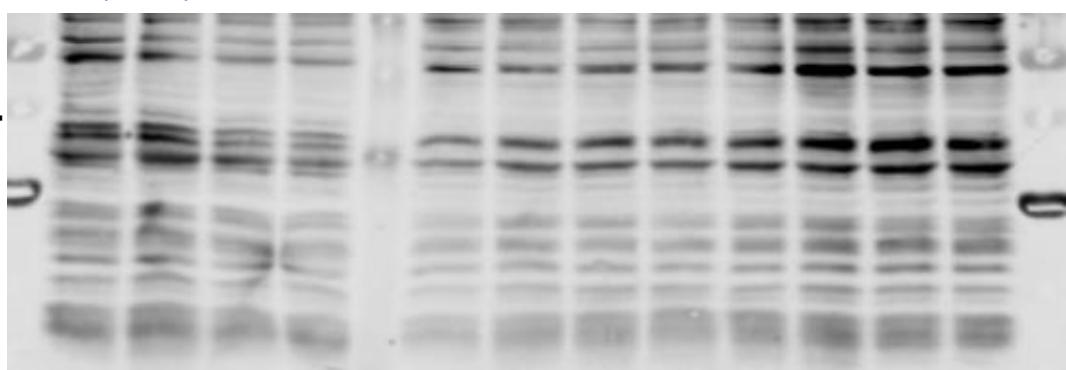
GAPDH

Gel 2 / 4

- +
IL-1 β IL-1 β

GSDMD-FL

GSDMD-NT



GAPDH



Excluded from this analysis

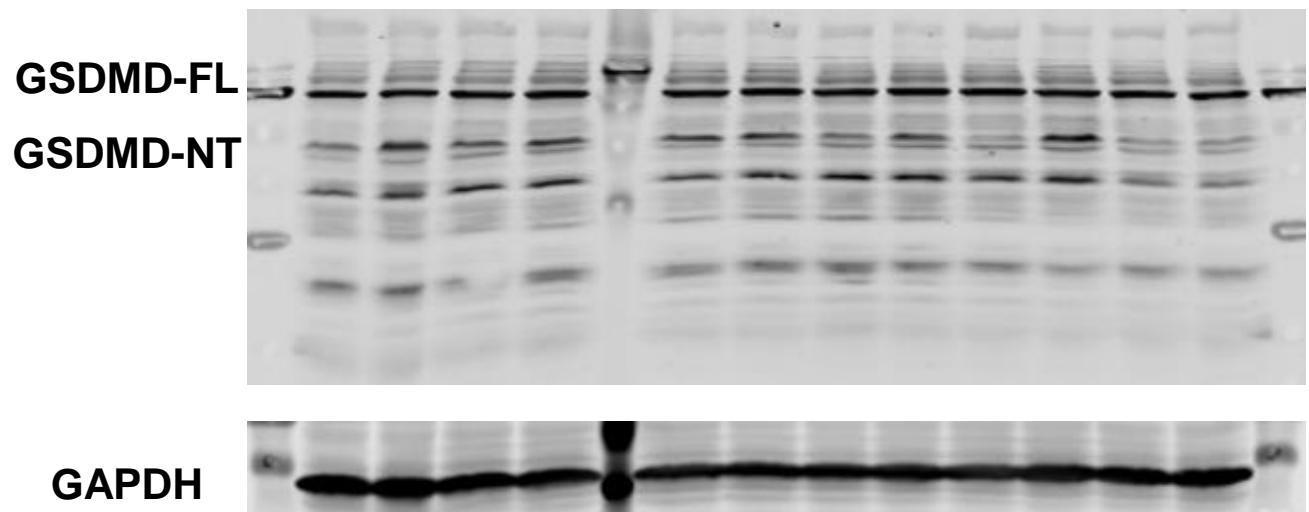
Figure 8E – HL1 cells

Gasdermin-D (GSDMD) FL + NT (-IL-1 β vs. + IL-1 β)

Gel 3 / 4

- + - + - + - + - + - +

IL-1 β IL-1 β



Gel 4 / 4

- + - + - + - +

IL-1 β IL-1 β

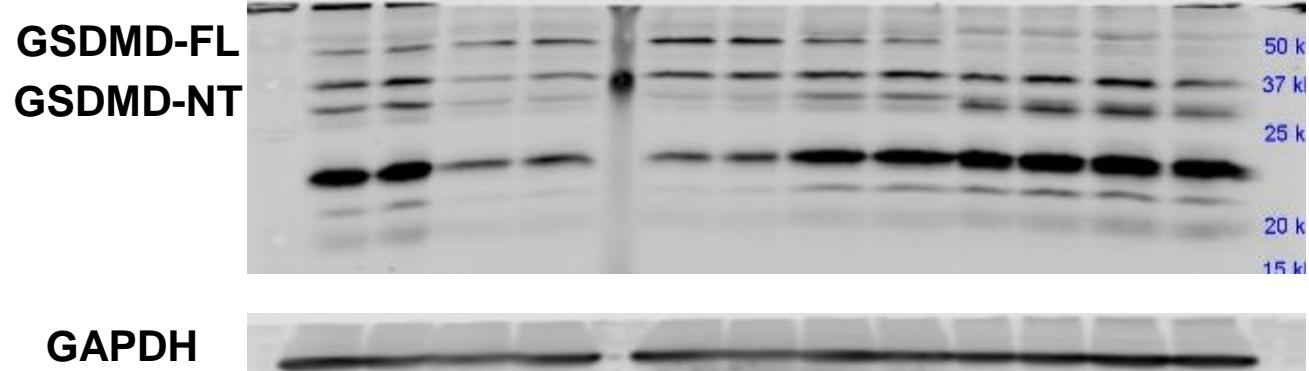
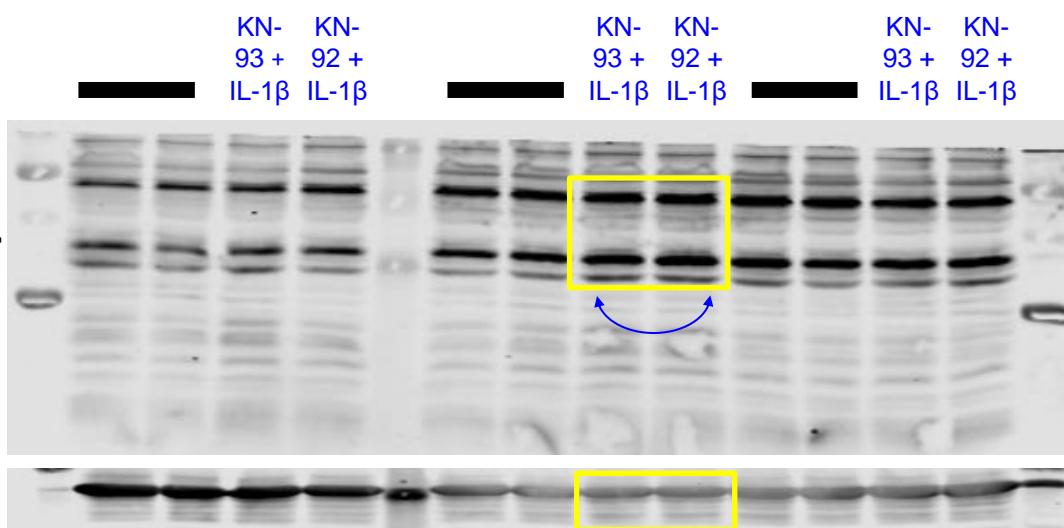


Figure 8E – HL1 cells

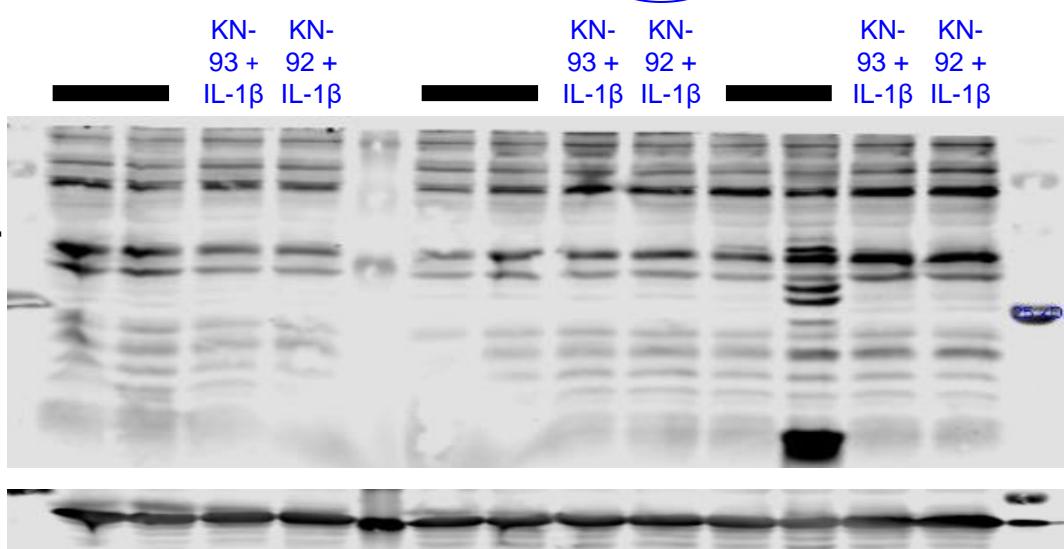
■ Excluded from this analysis

Gasdermin-D (GSDMD) FL + NT (KN-92 vs. KN-93)

Gel 1 / 5



Gel 2 / 5



Gel 3 / 5

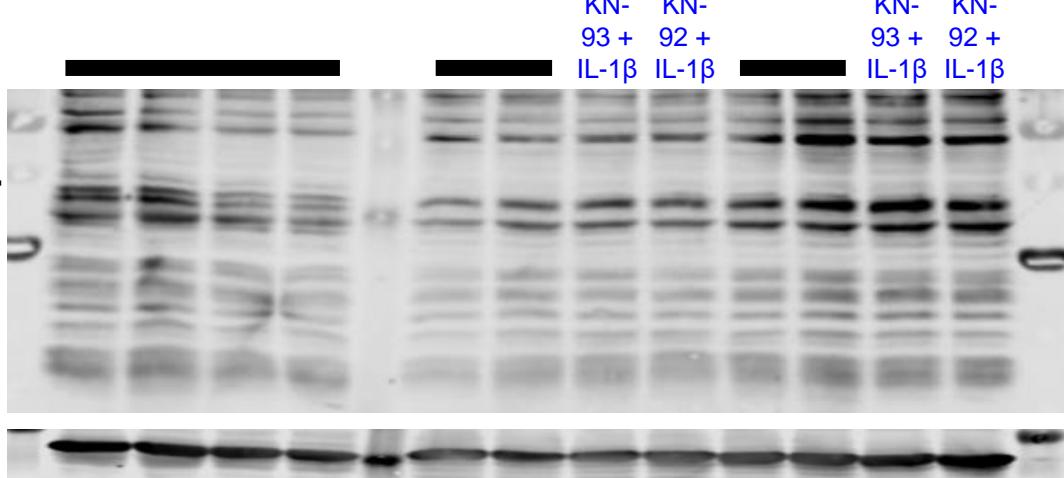
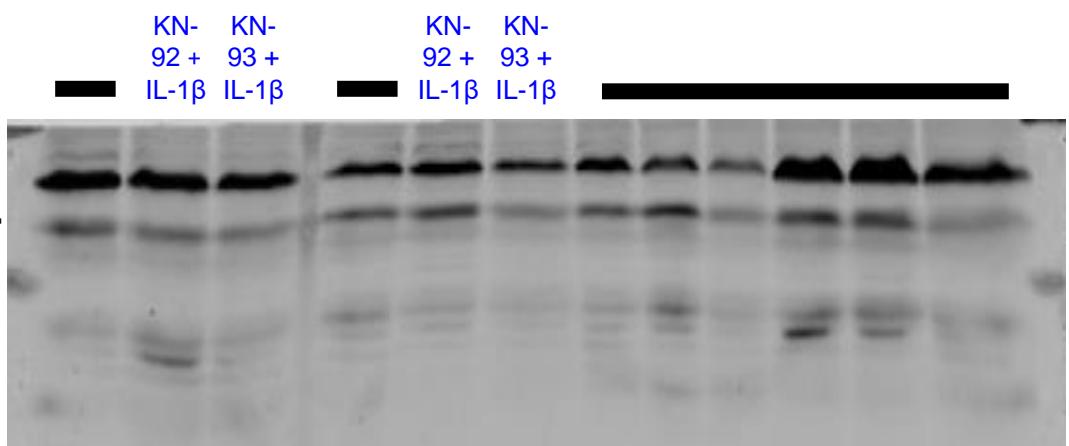


Figure 8E – HL1 cells

■ Excluded from this analysis

Gasdermin-D (GSDMD) FL + NT (KN-92 vs. KN-93)

Gel 4 / 5



GAPDH

Gel 5 / 5

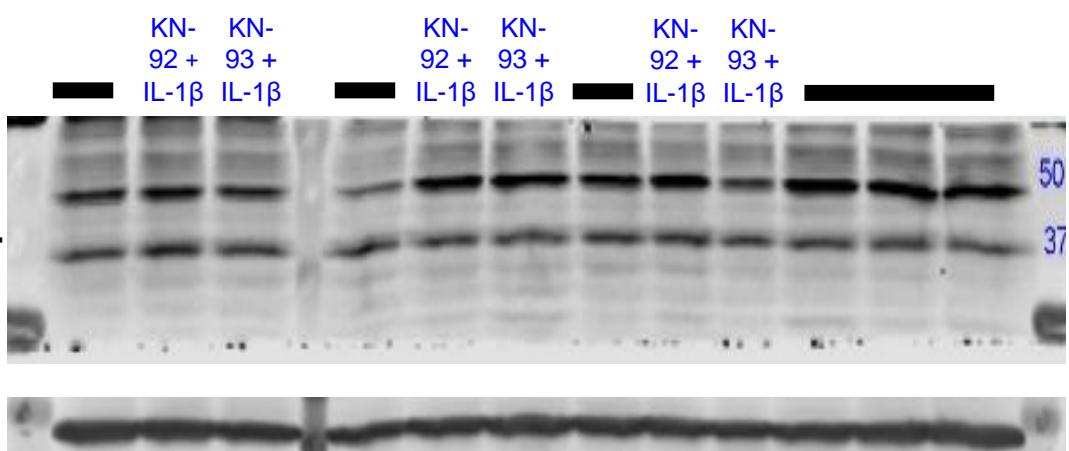
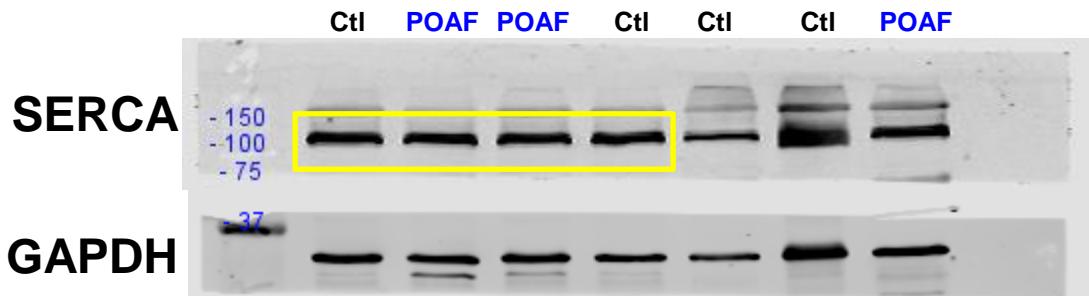


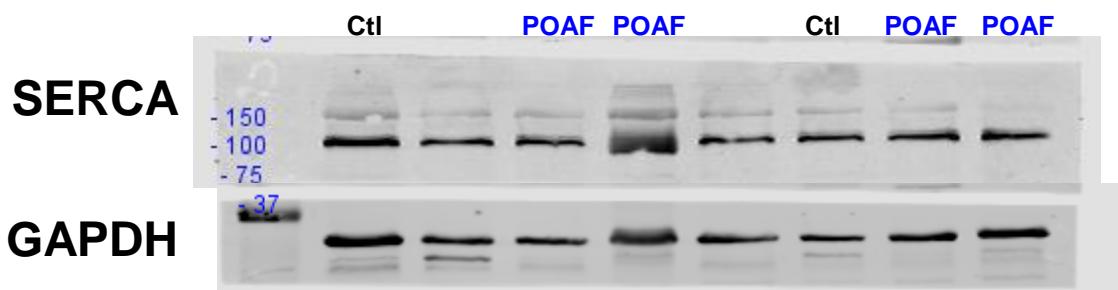
Figure 8E – HL1 cells

— Excluded from this analysis

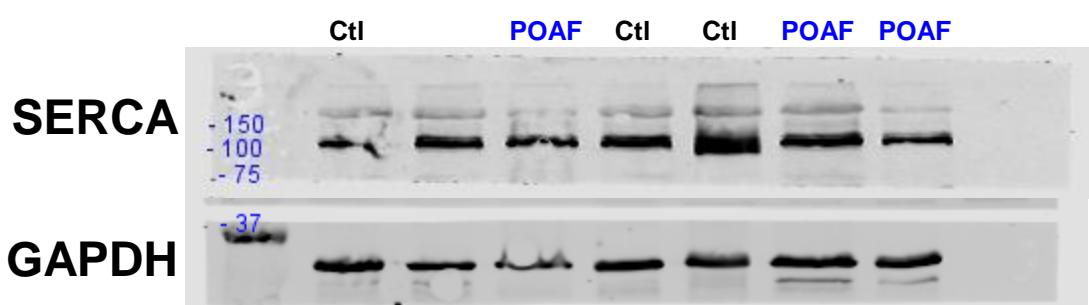
Gel 1 / 4



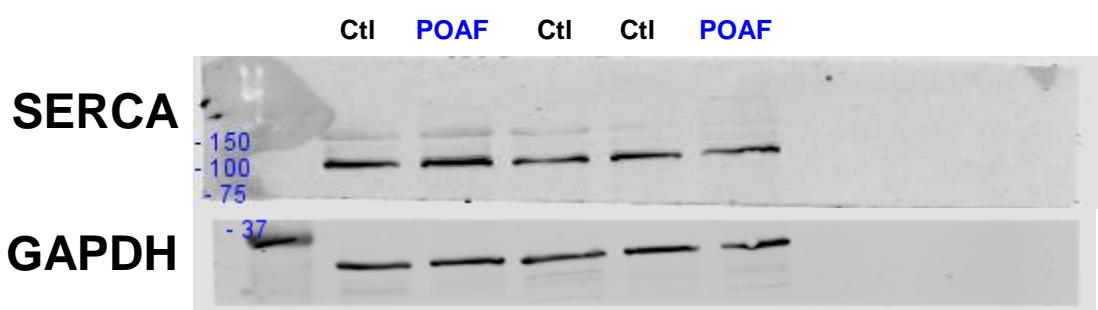
Gel 2 / 4



Gel 3 / 4

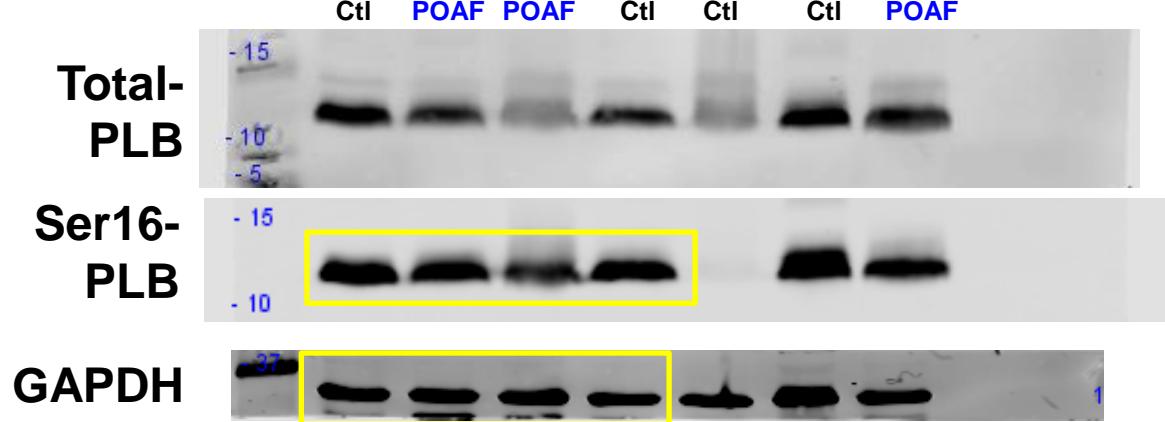


Gel 4 / 4

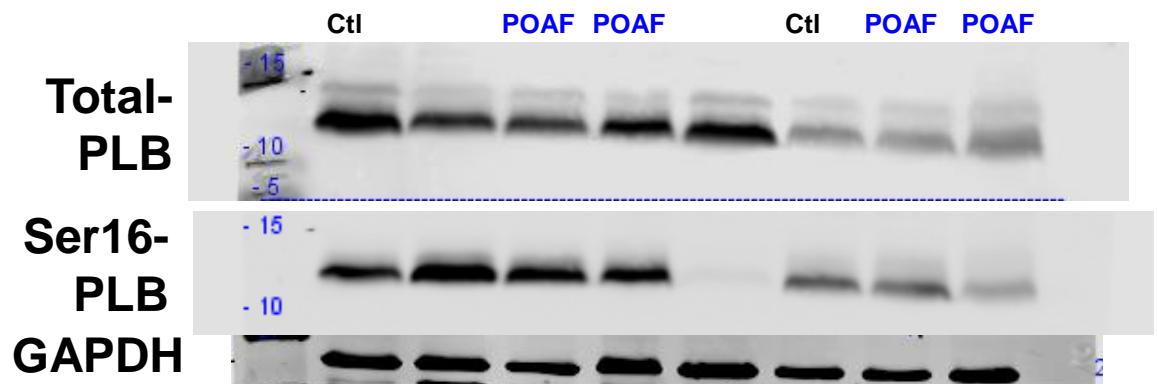


Online Figure VIIA

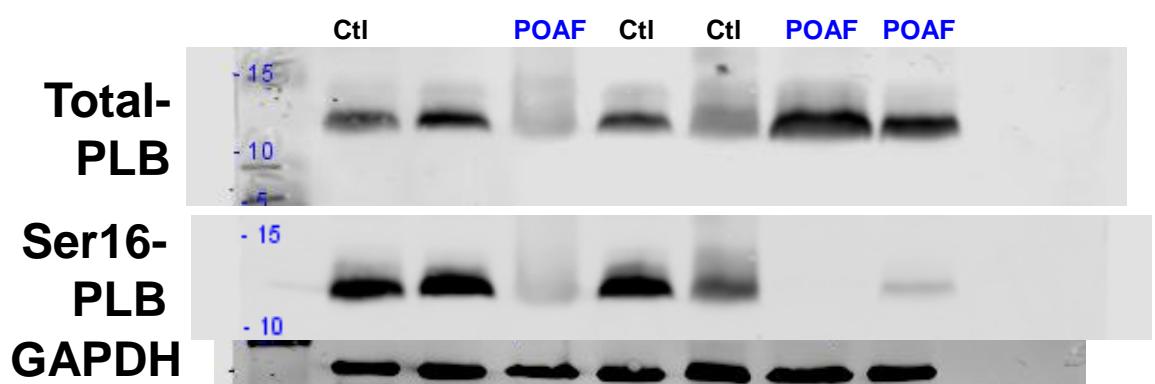
Gel 1 / 4



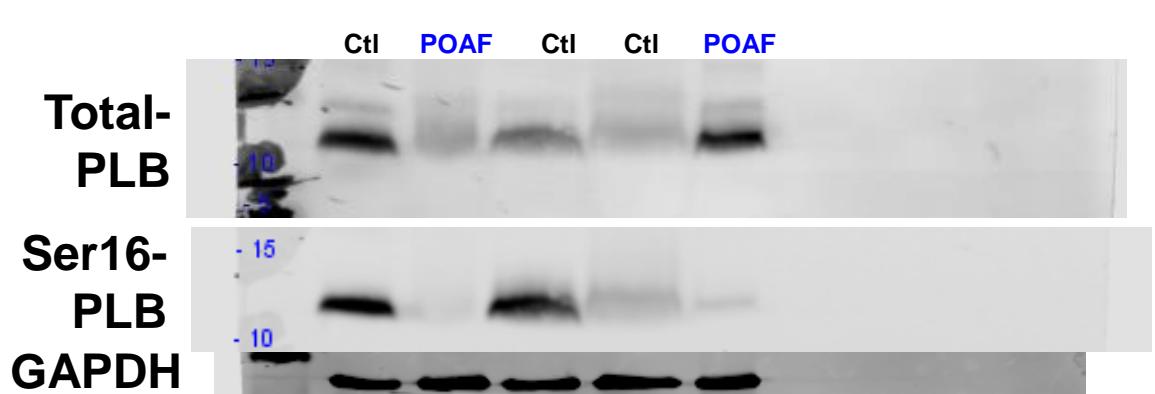
Gel 2 / 4



Gel 3 / 4



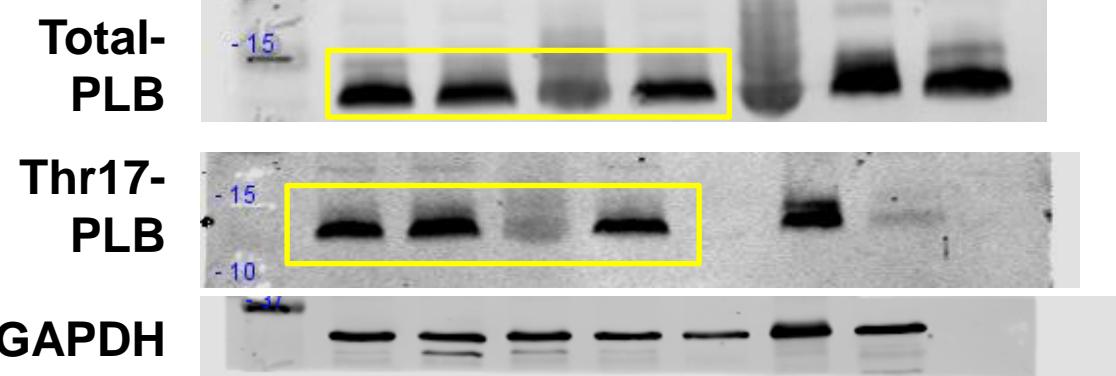
Gel 4 / 4



Online Figure VIIA

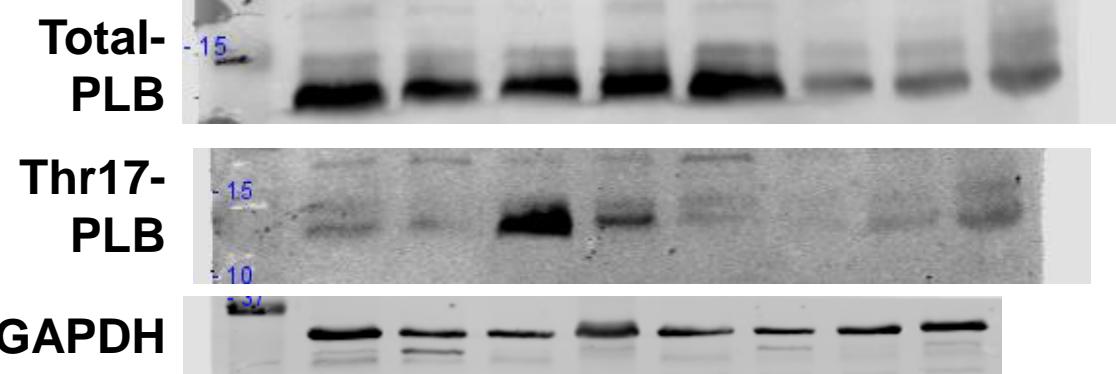
Gel 1 / 4

Ctl POAF POAF Ctl Ctl Ctl POAF



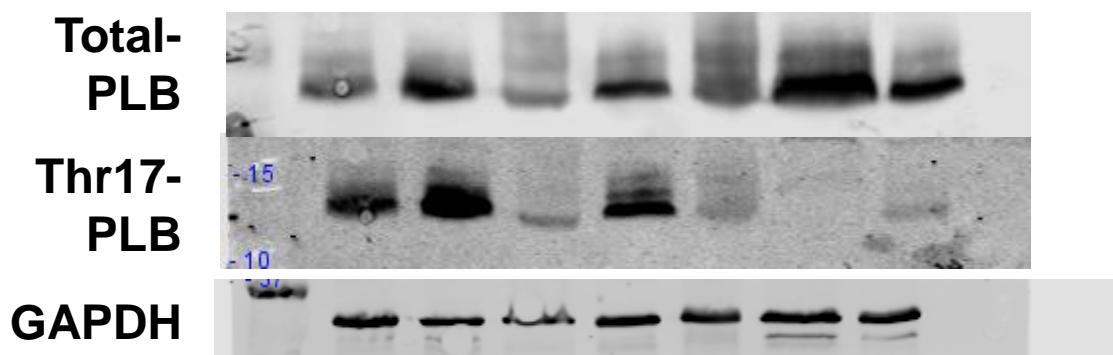
Gel 2 / 4

Ctl POAF POAF Ctl POAF POAF



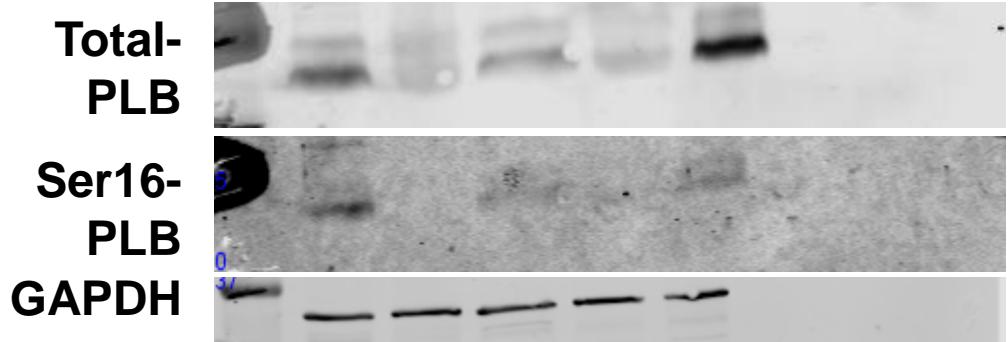
Gel 3 / 4

Ctl POAF Ctl Ctl POAF POAF

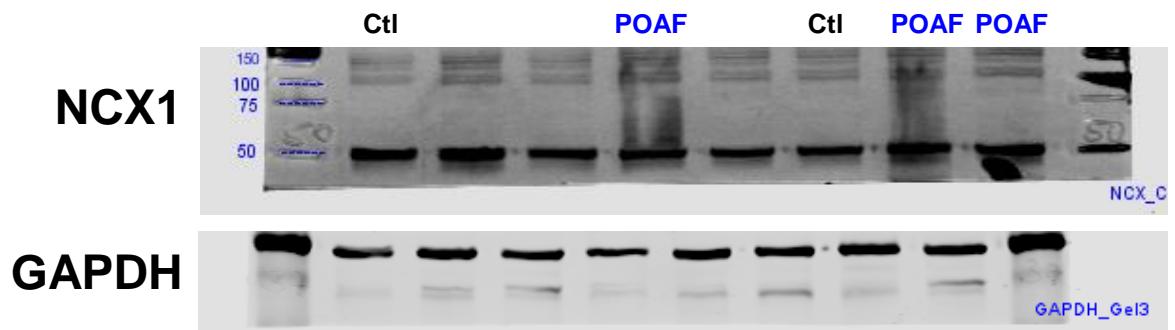
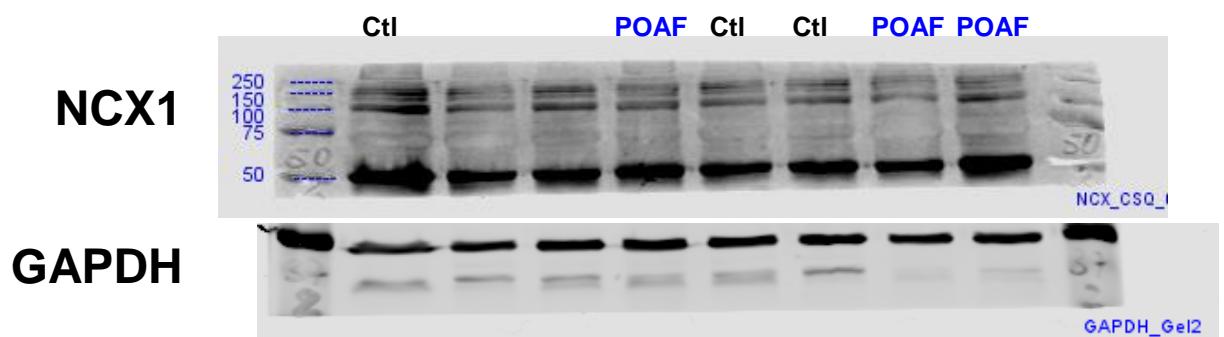
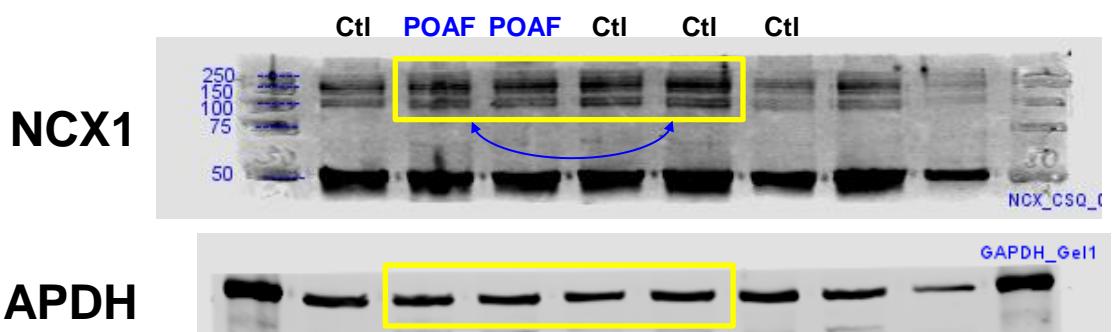


Gel 4 / 4

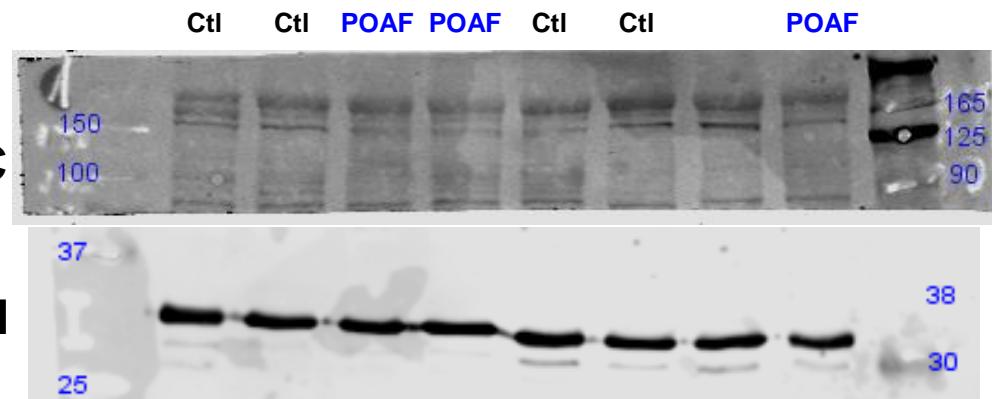
Ctl POAF Ctl Ctl POAF



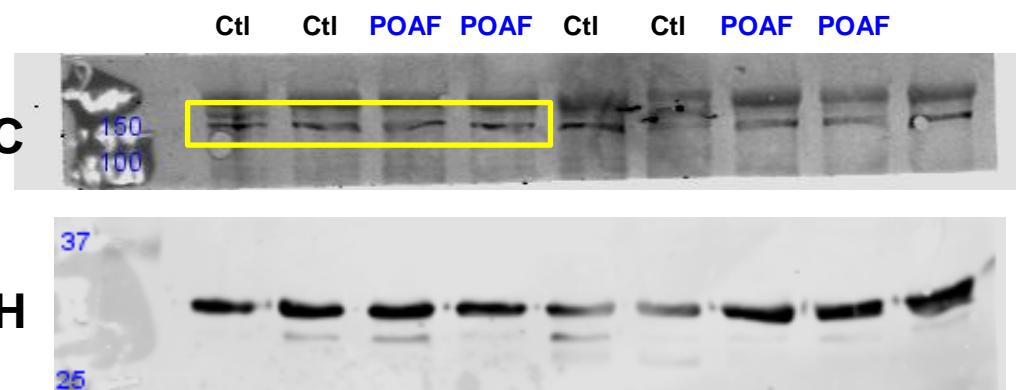
Online Figure VIIA



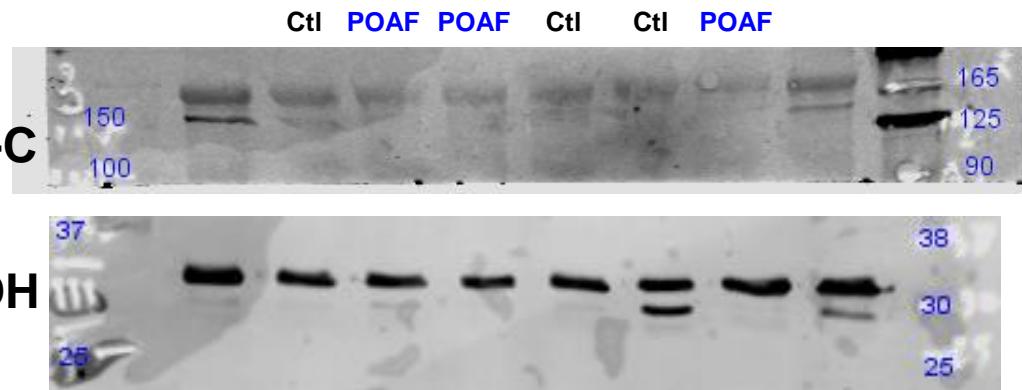
Myosin-binding protein-C



Myosin-binding protein-C

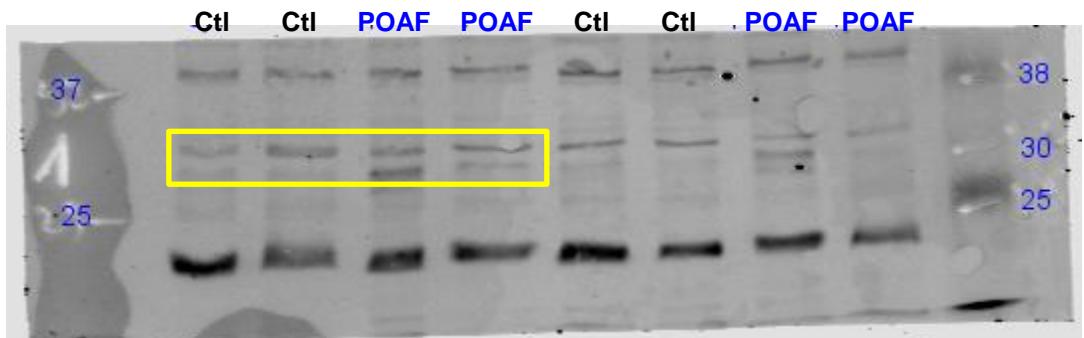


Myosin-binding protein-C



Gel 1 / 2

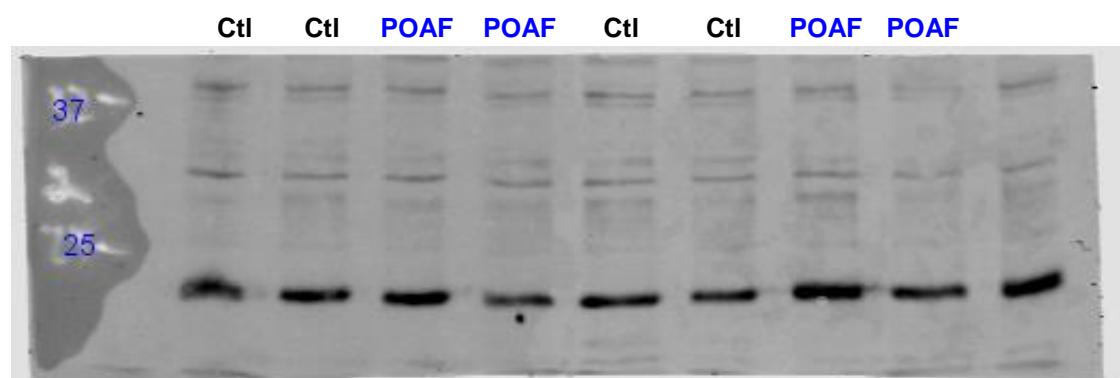
Troponin-I



GAPDH

Gel 2 / 2

Troponin-I



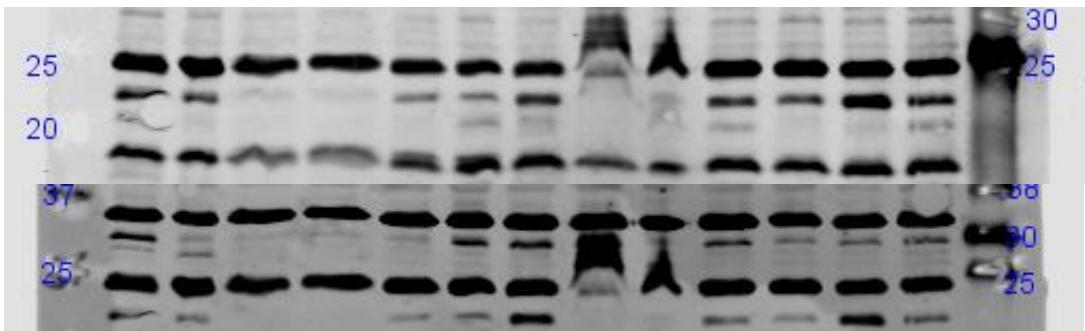
GAPDH

Online Figure VIIID – Human atrial whole-tissue lysates

Gel 1 / 4

Troponin-C

Ctl Ctl POAF POAF Ctl Ctl POAF POAF Ctl Ctl POAF POAF Ctl

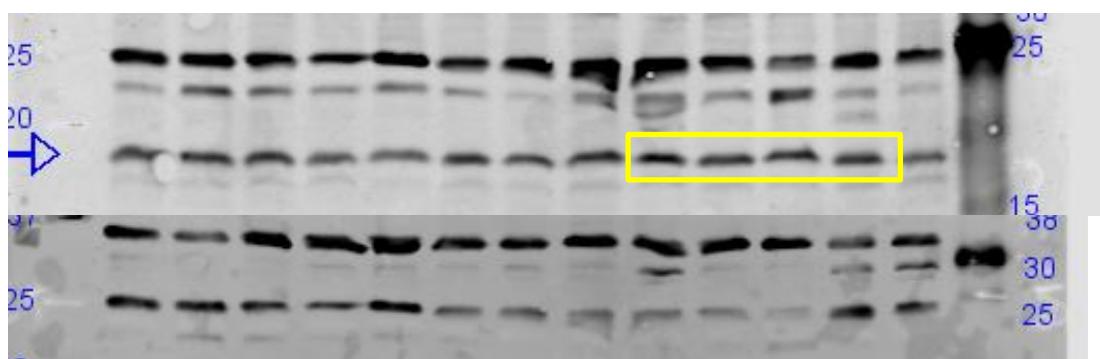


Gel 2 / 4

Troponin-C

Ctl POAF POAF Ctl Ctl POAF POAF Ctl Ctl POAF POAF

GAPDH

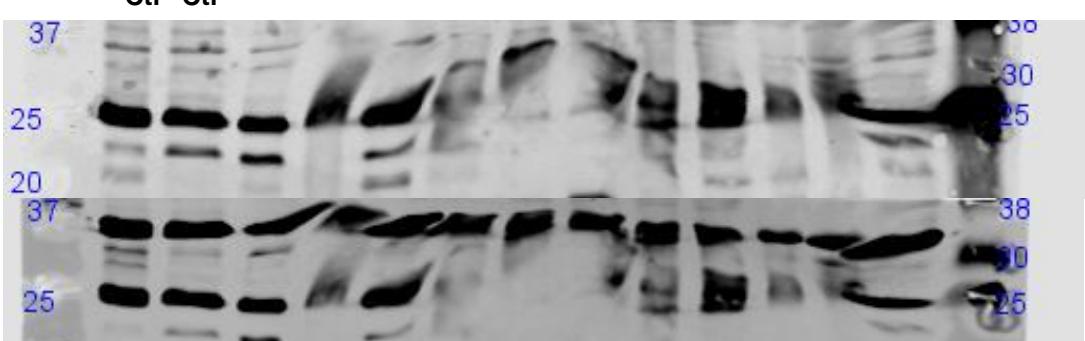


Gel 3 / 4

Troponin-C

Ctl Ctl

GAPDH



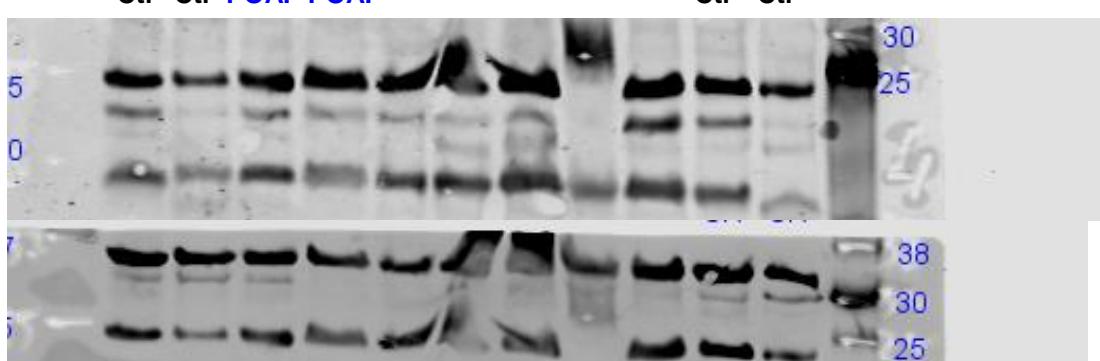
Gel 4 / 4

Troponin-C

Ctl Ctl POAF POAF

GAPDH

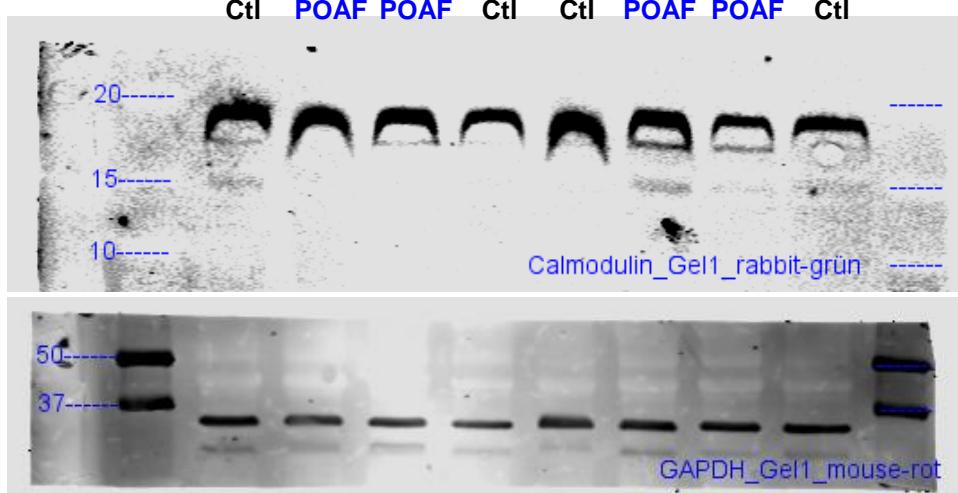
Ctl Ctl



Online Figure VIIID – Human atrial whole-tissue lysates

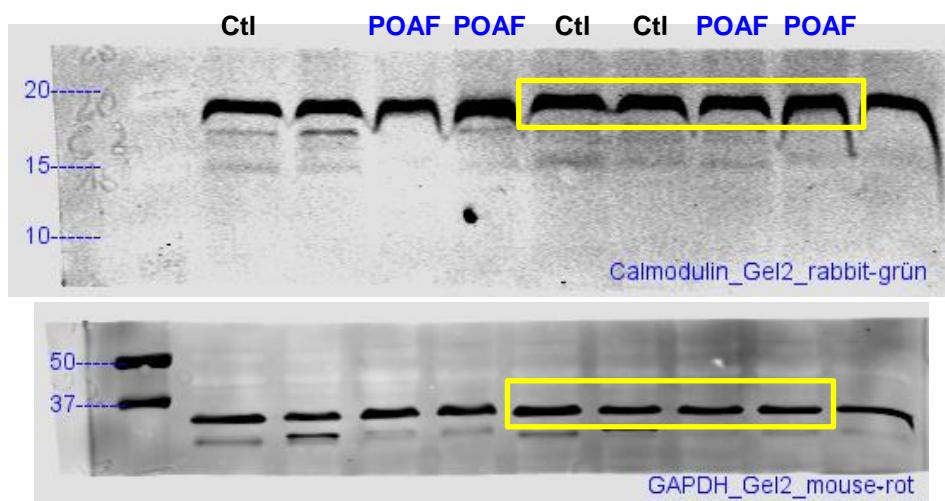
Gel 1 / 3

Calmodulin



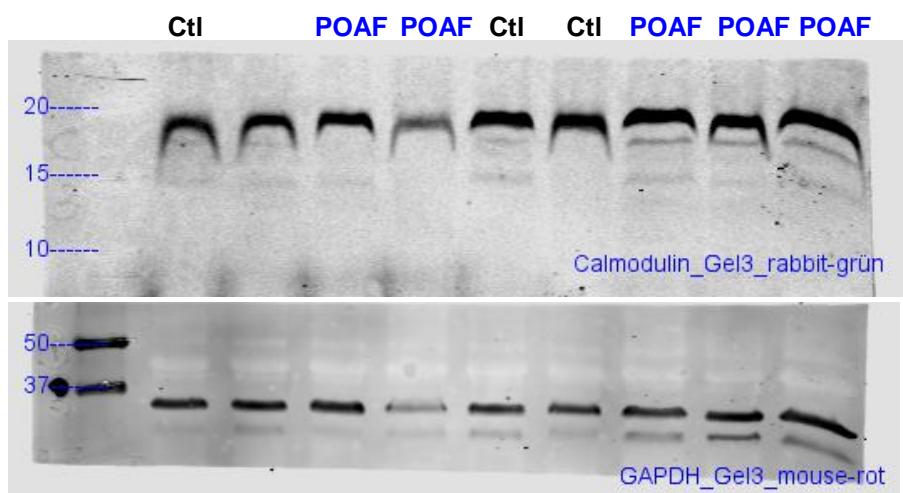
Gel 2 / 3

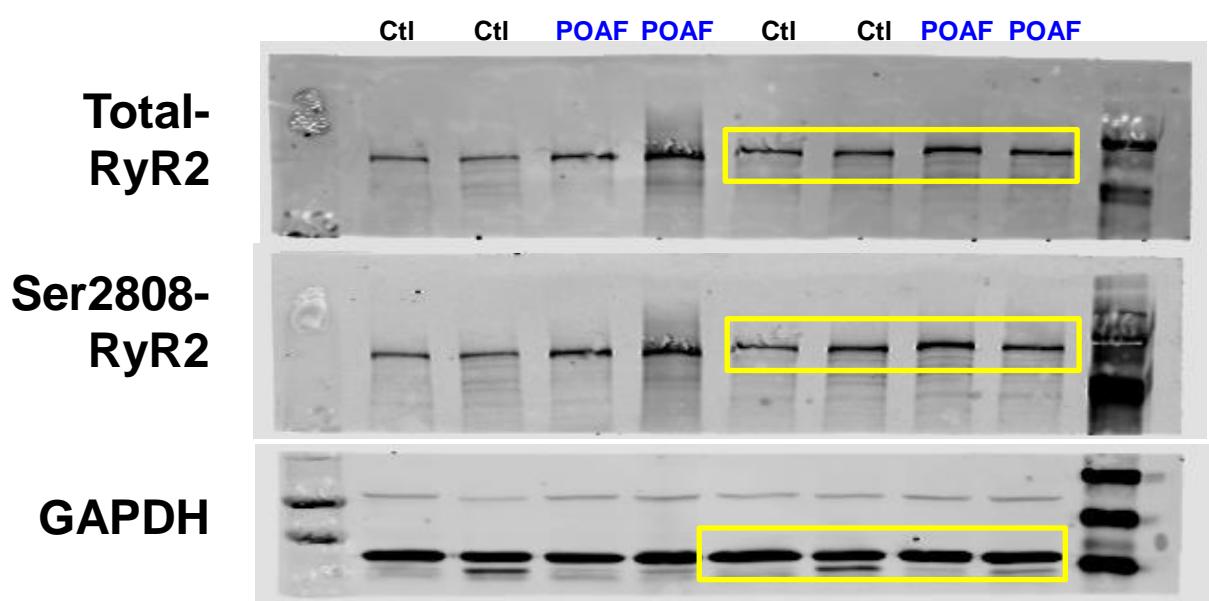
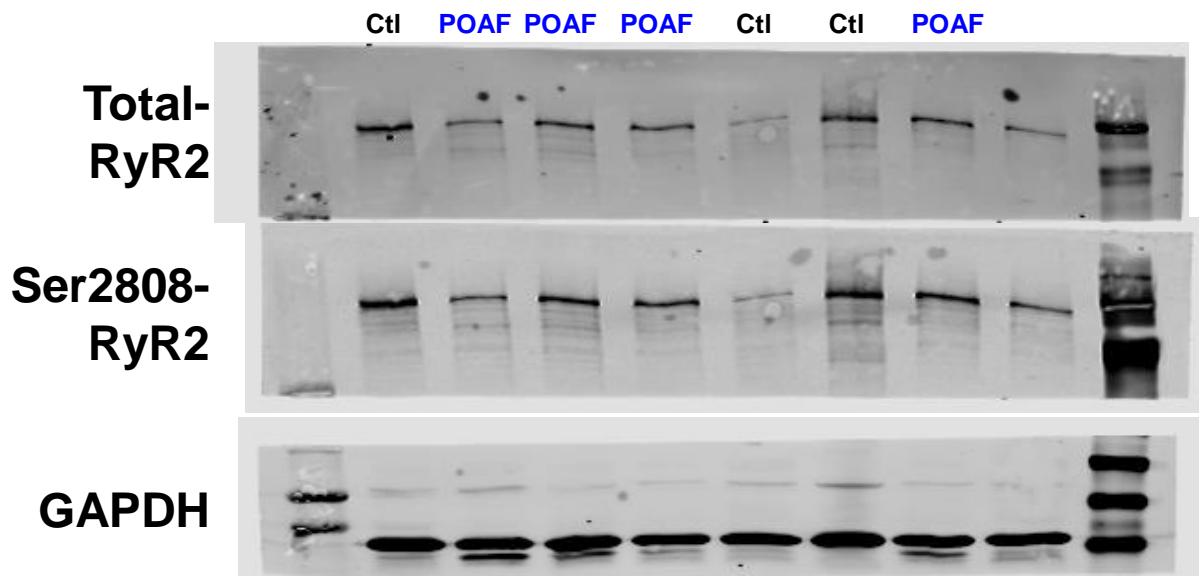
Calmodulin



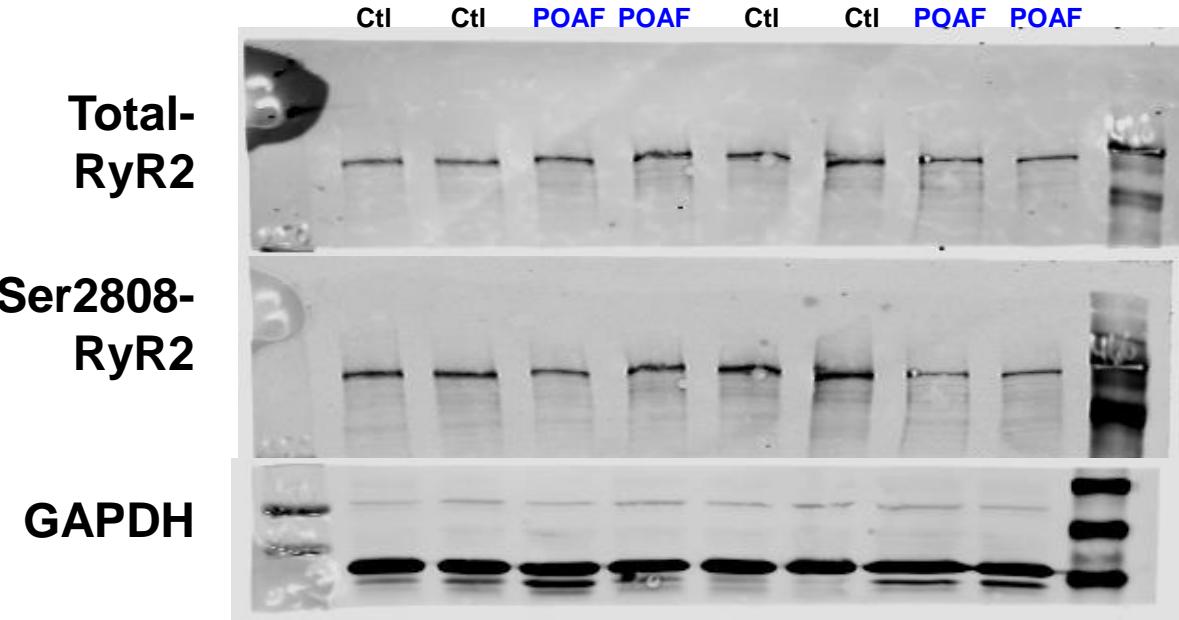
Gel 3 / 3

Calmodulin

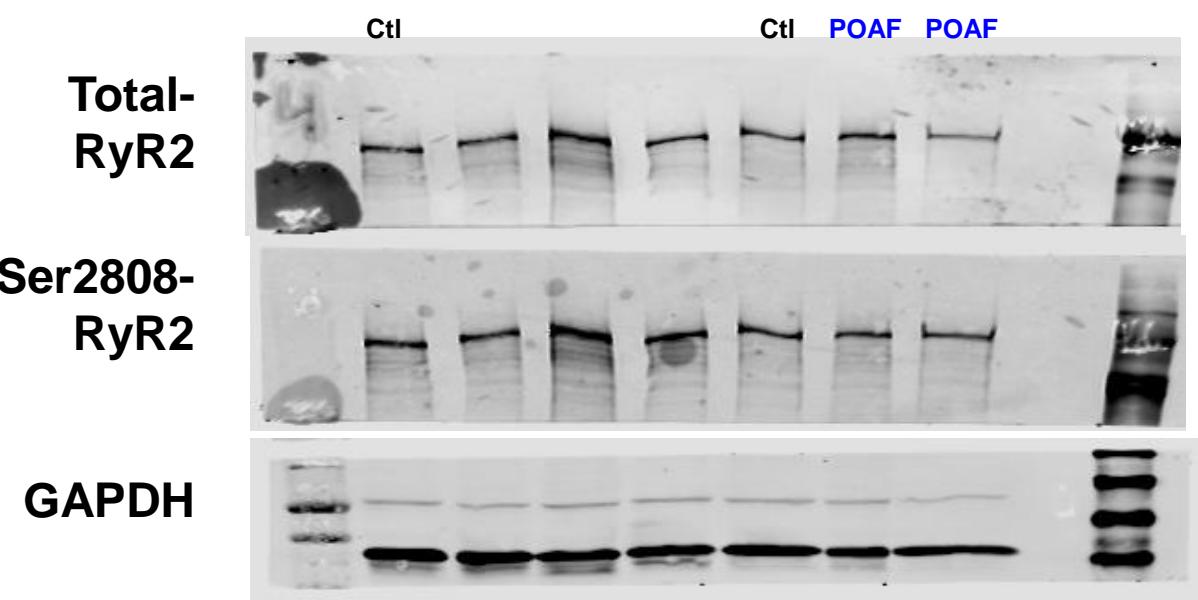




Gel 3 / 4



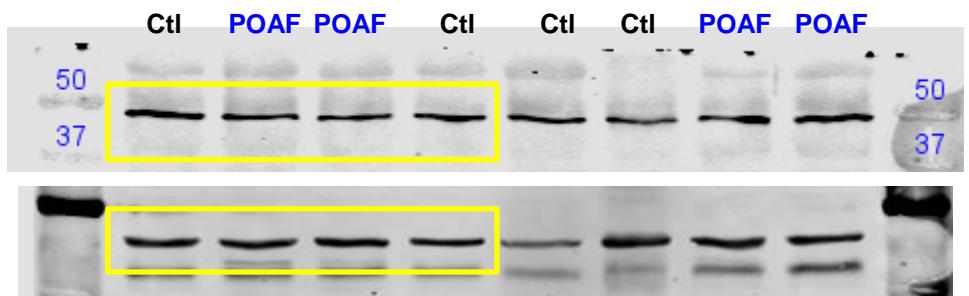
Gel 4 / 4



Online Figure IXA – Human atrial whole-tissue lysates

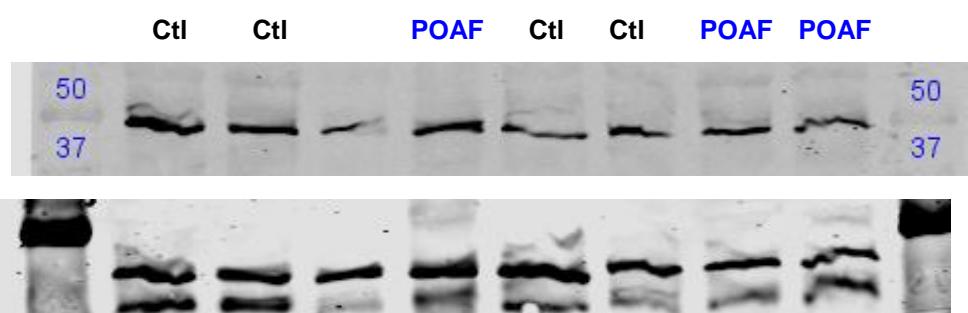
Gel 1 / 3

Calsequestrin



Gel 2 / 3

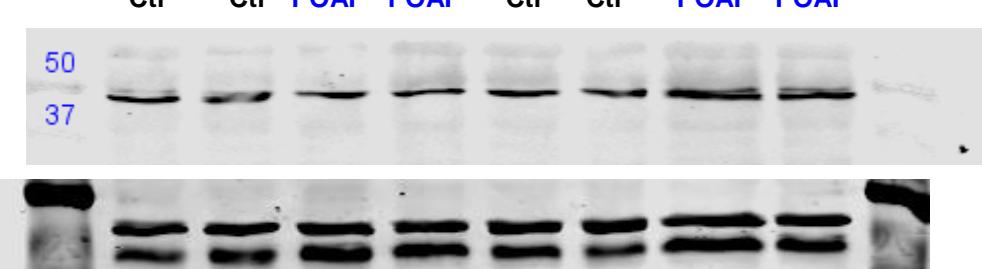
Calsequestrin



Gel 3 / 3

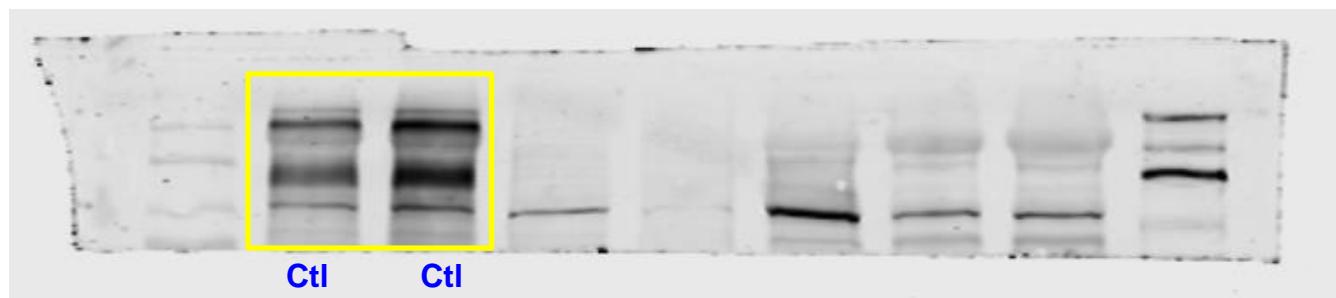
Calsequestrin

GAPDH

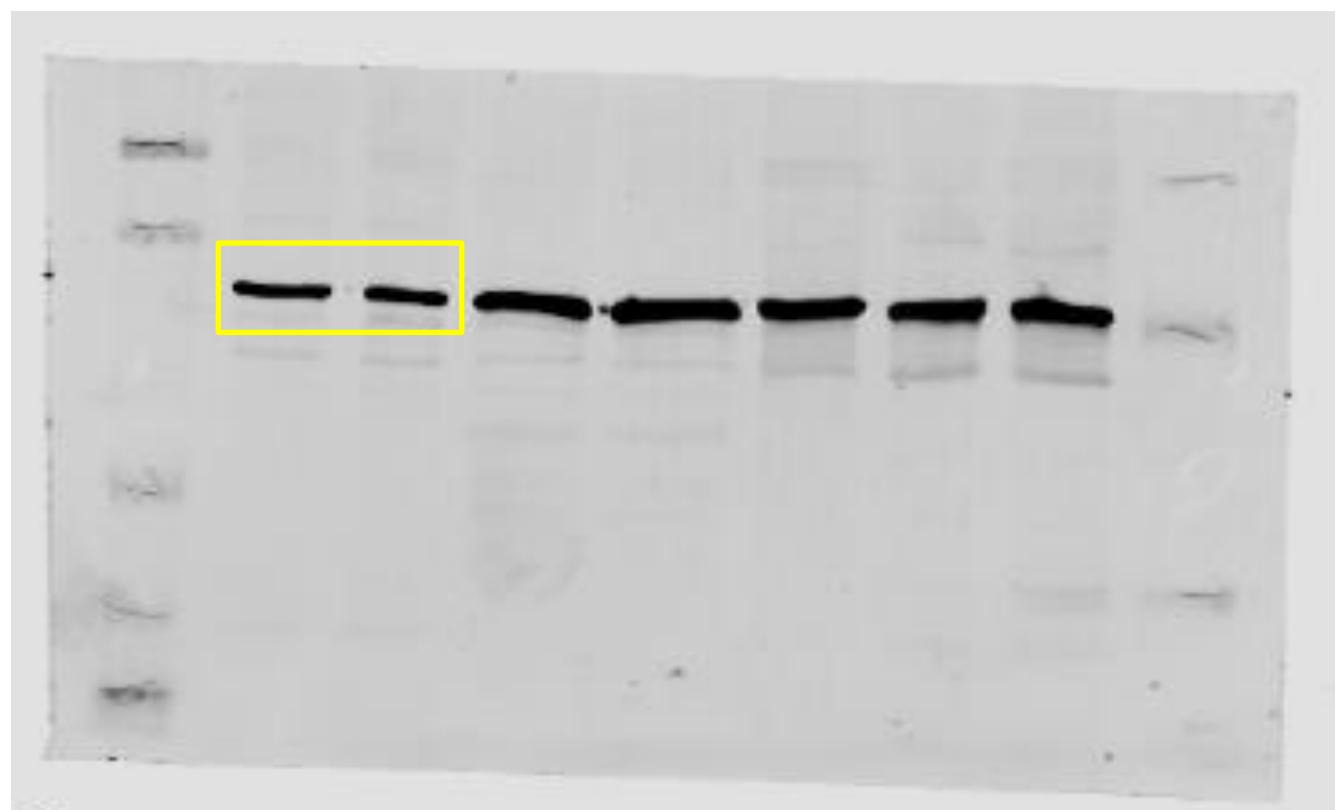


Online Figure IXB – Human atrial whole-tissue lysates

NLRP3



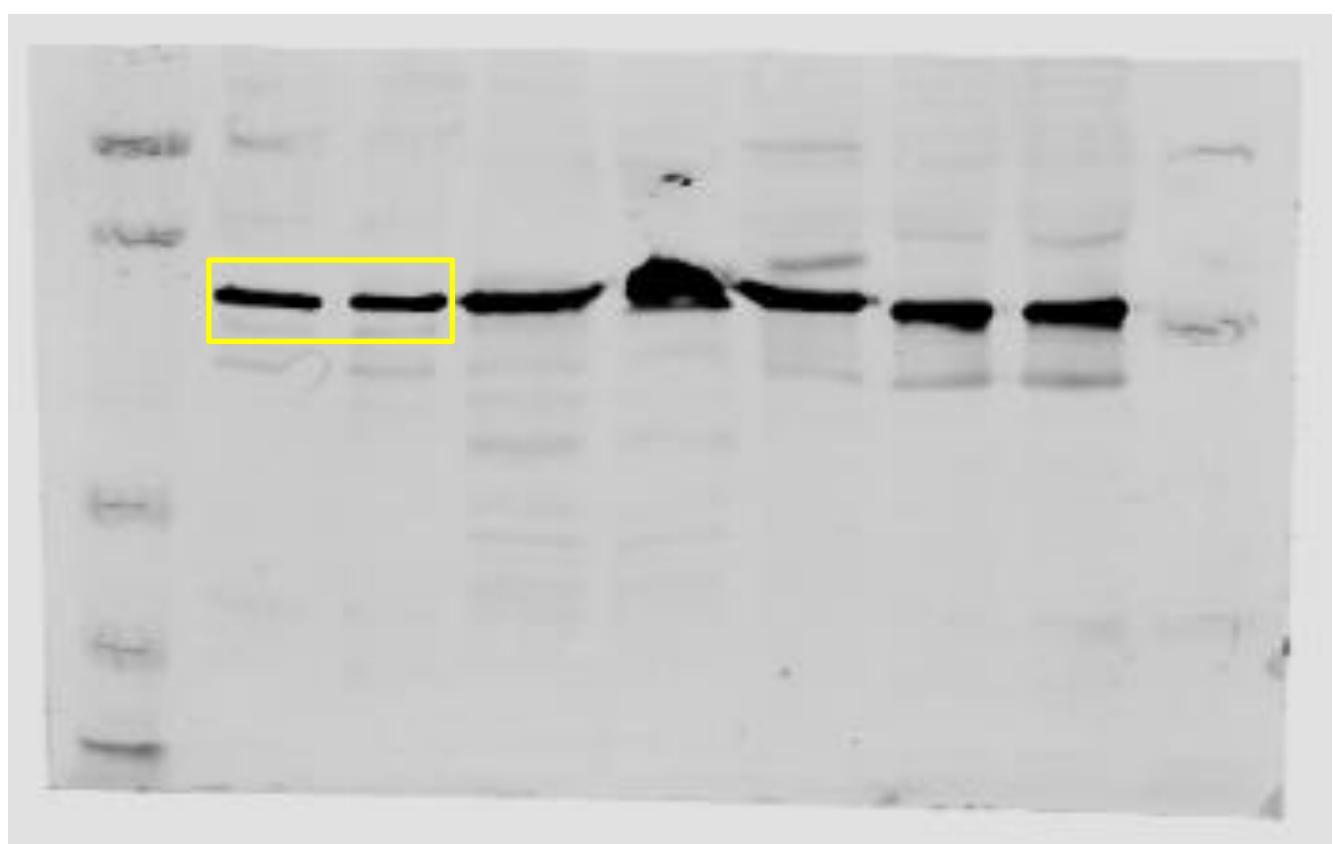
GAPDH



NLRP3

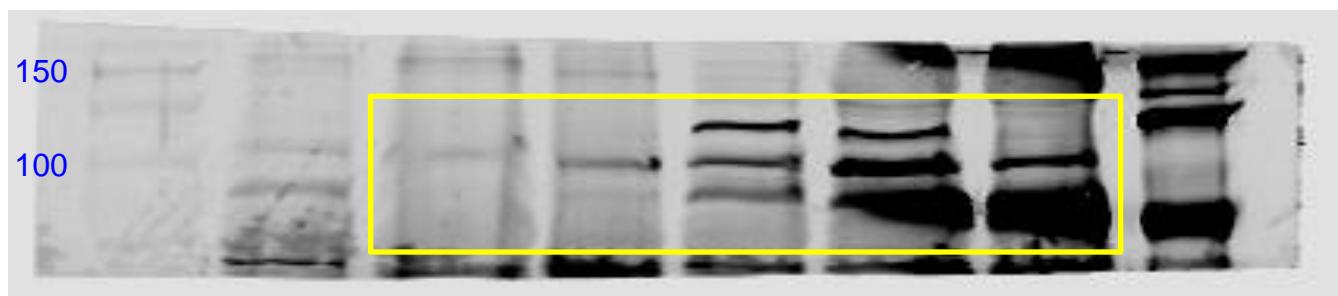


GAPDH

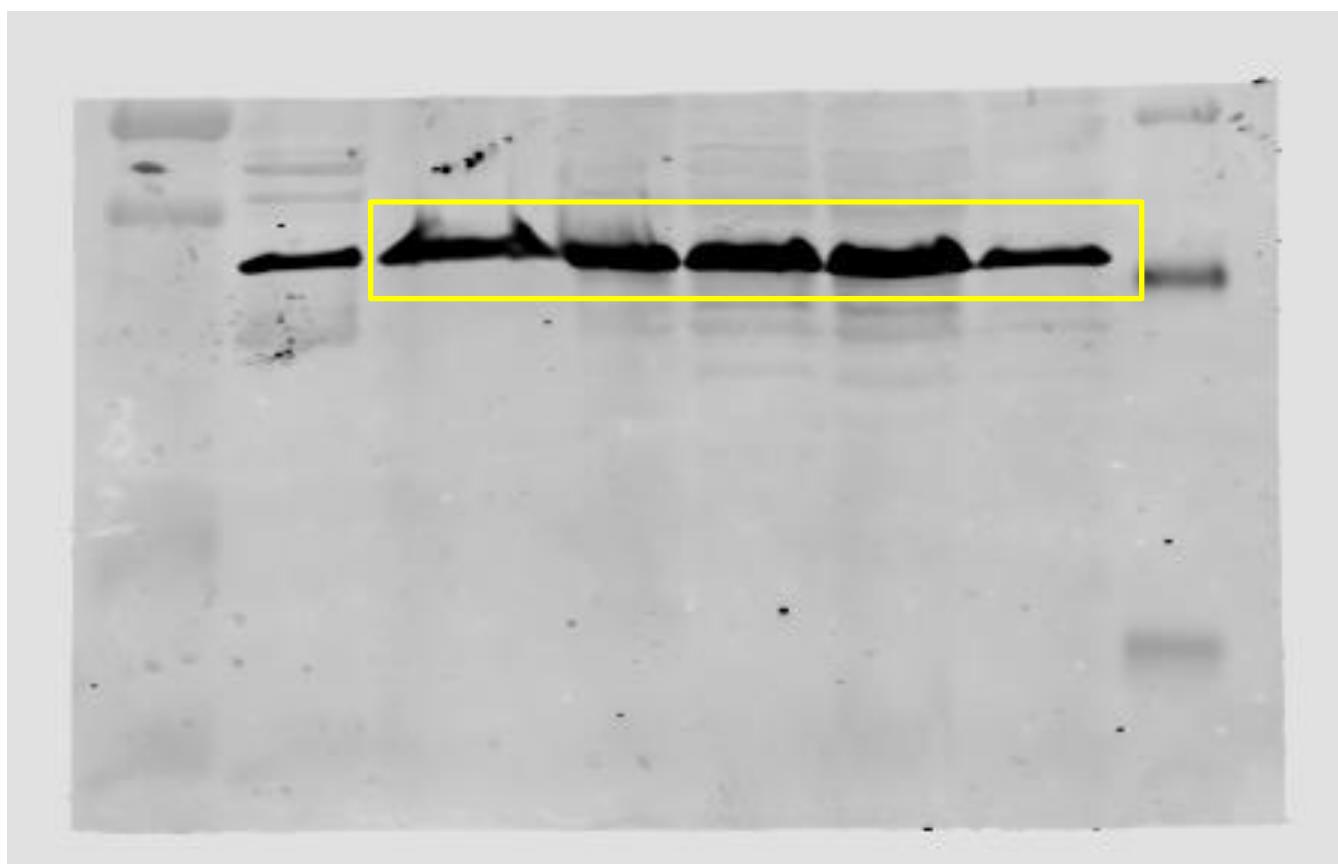


NLRP3

ATR: - CF - CF + CF - CM - CM + CF

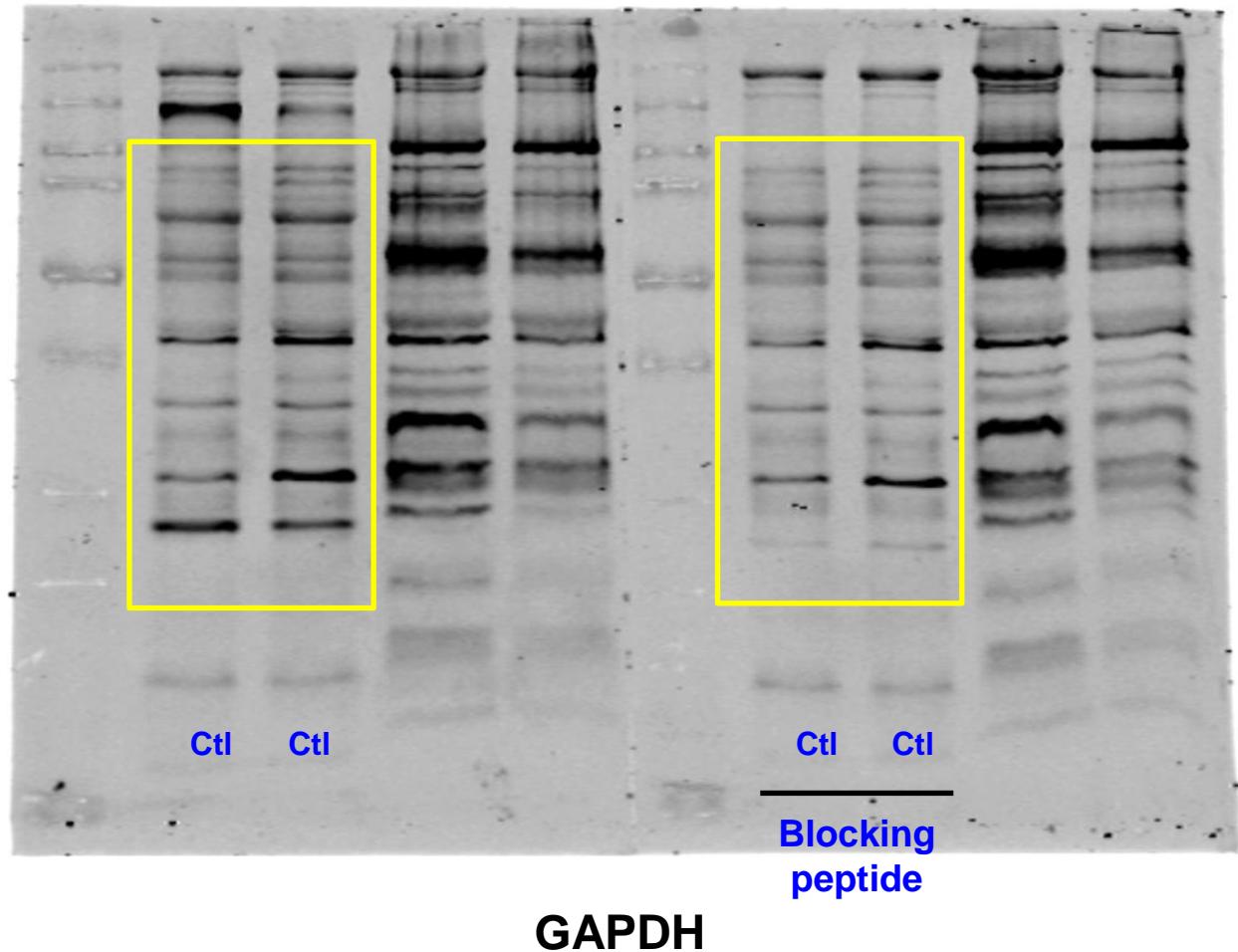


GAPDH

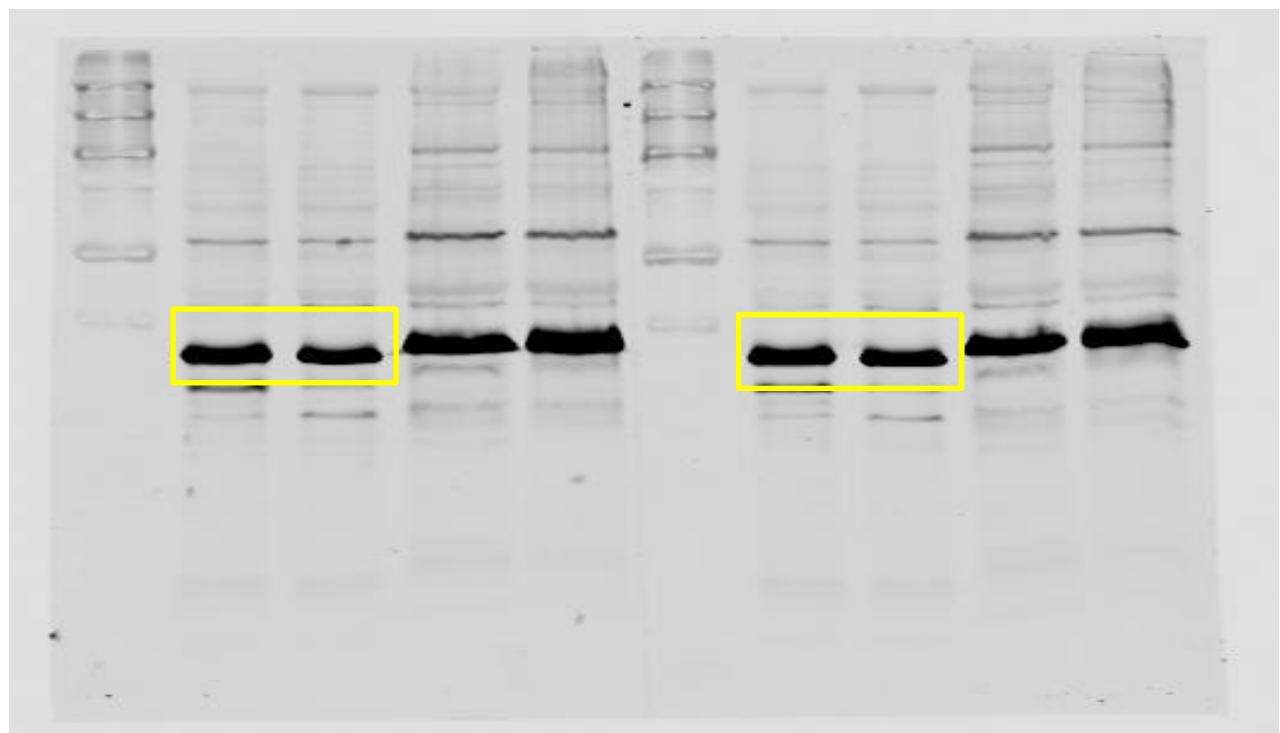


Online Figure XIA – Canine atrial fibroblasts (CF) and atrial cardiomyocytes (CM)

ASC

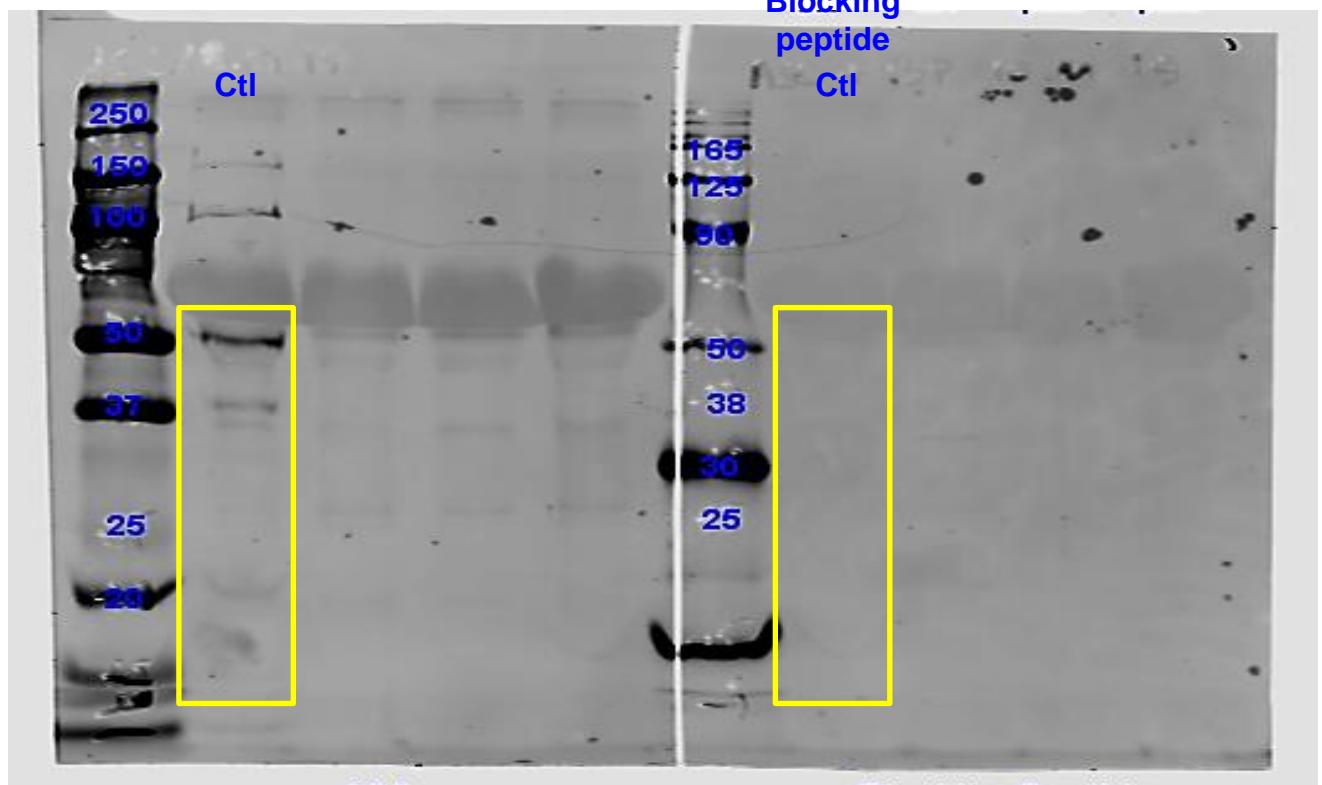


GAPDH

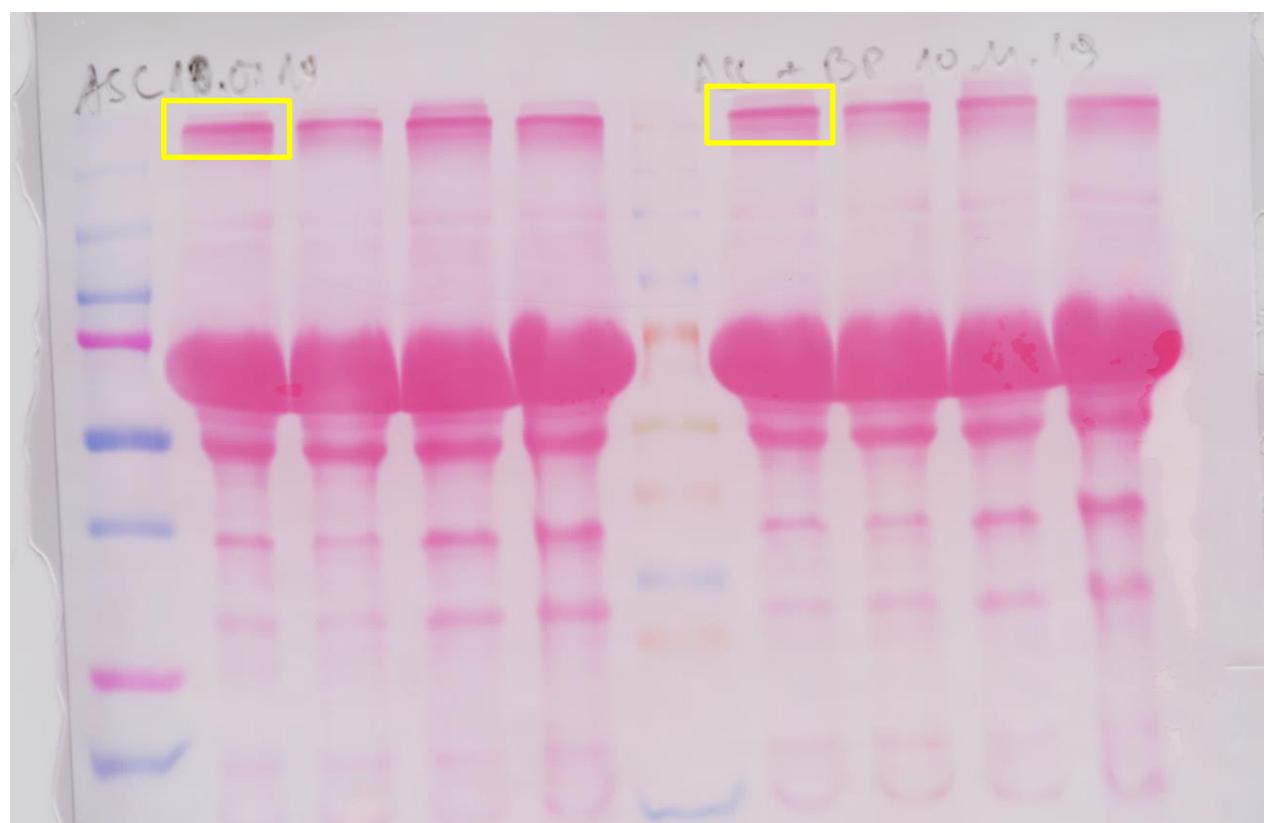


Online Figure XIB – Human atrial whole-tissue lysates

ASC



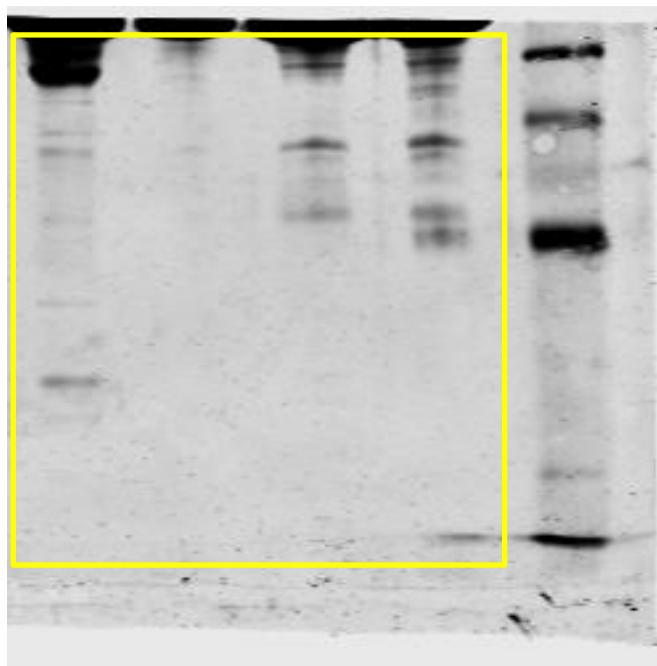
Ponceau



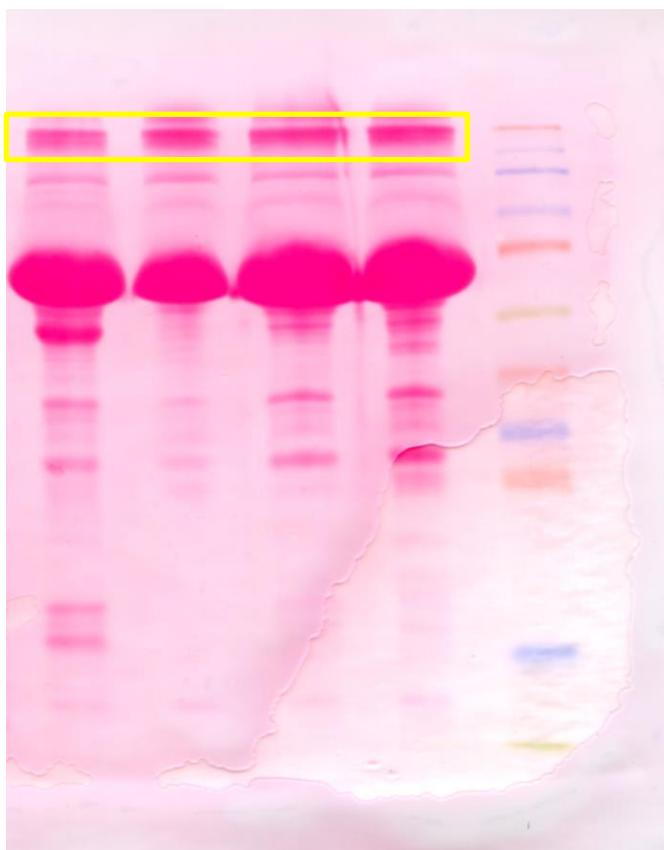
Online Figure XIC – Human atrial cardiomyocytes

(Pro-)Caspase-1

Ctl Ctl POAF POAF

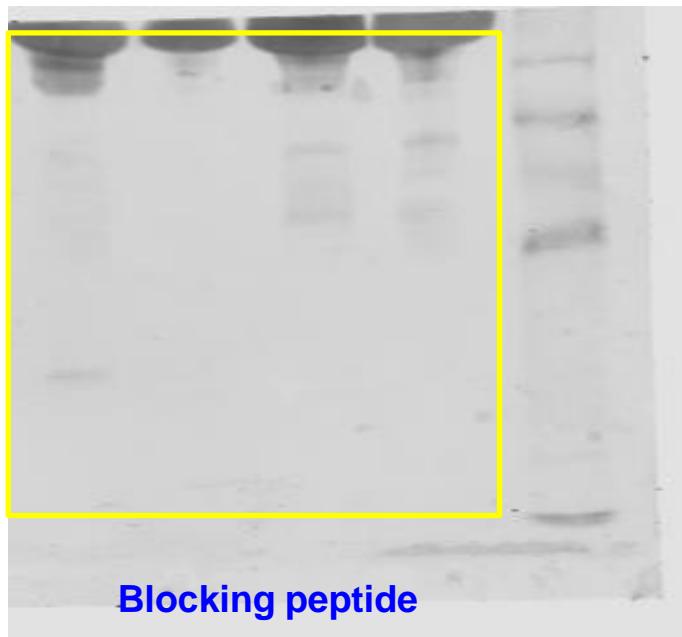


Ponceau

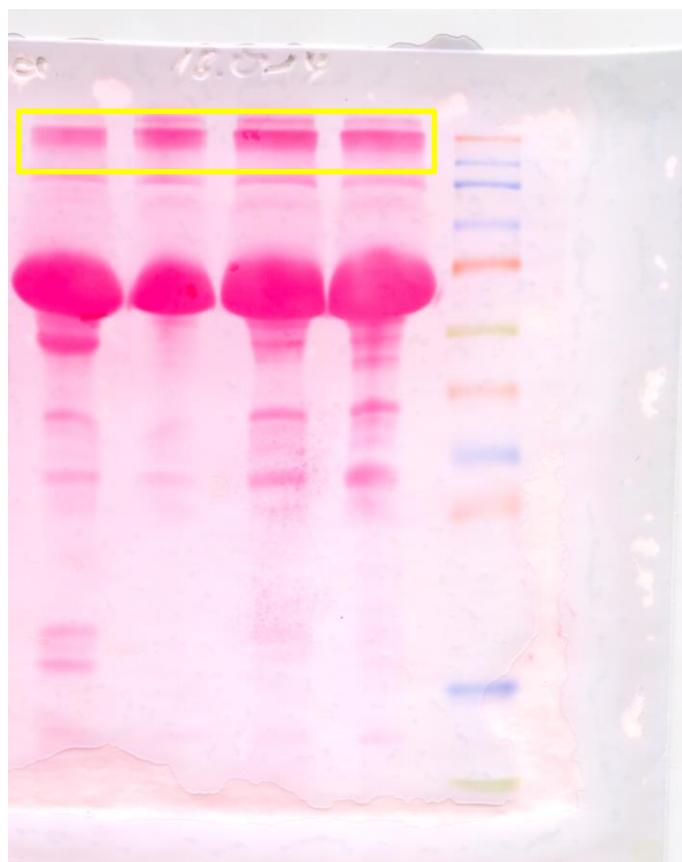


(Pro-)Caspase-1

Ctl Ctl POAF POAF

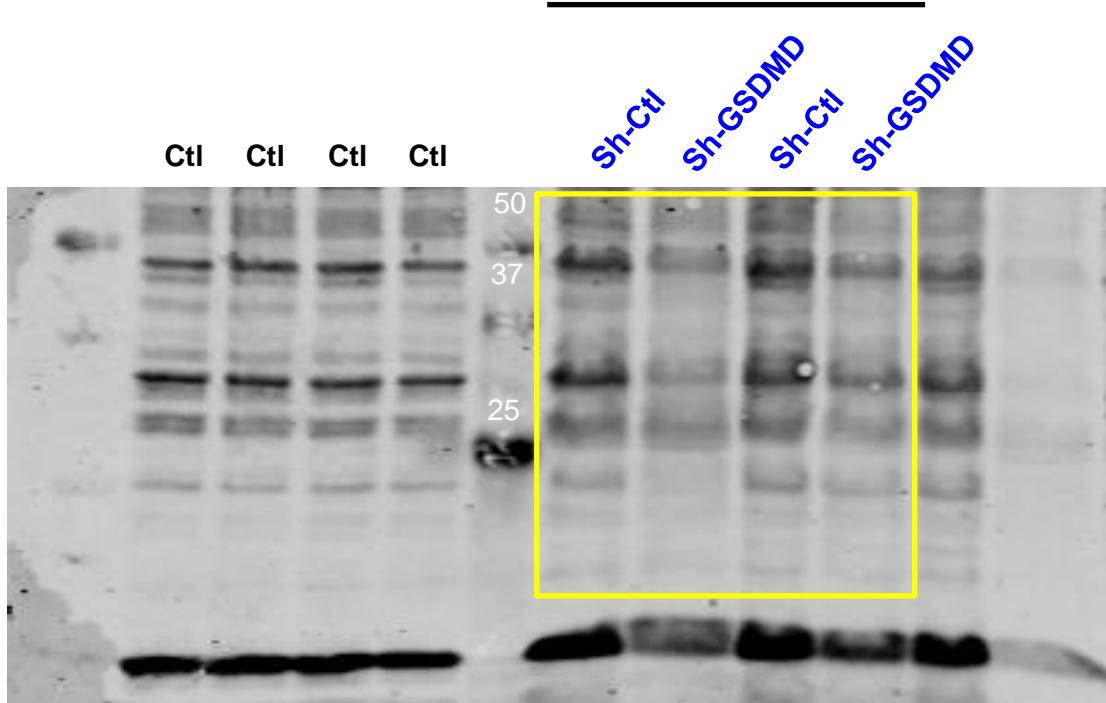


Ponceau

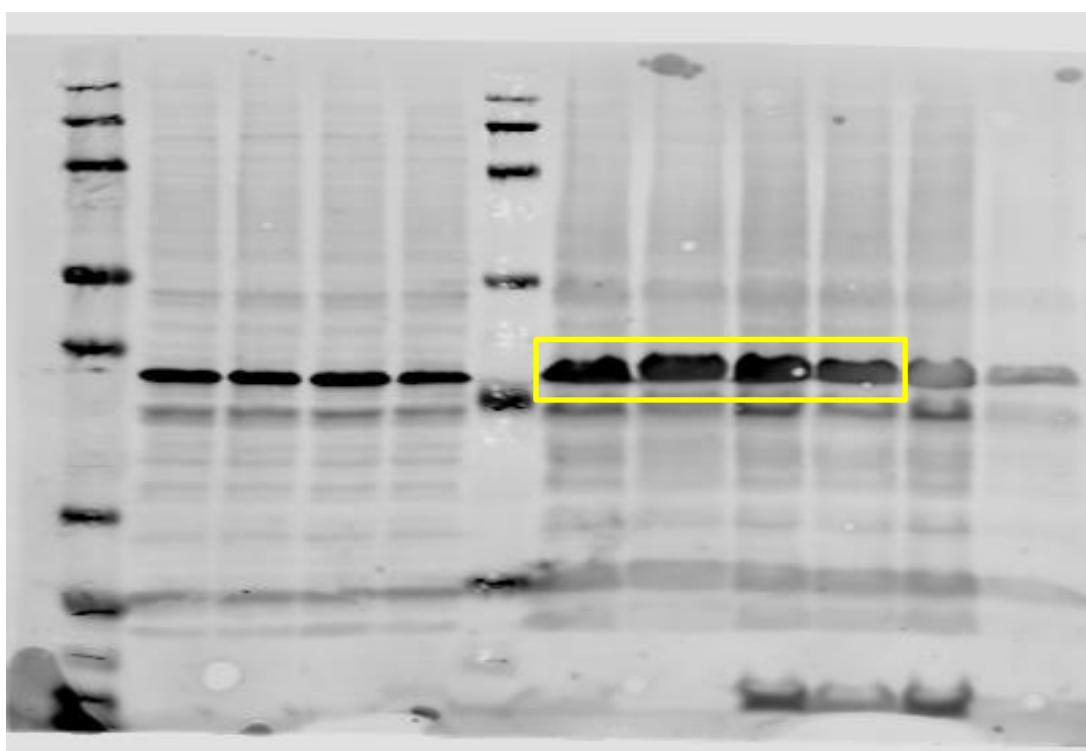


Gasdermin-D

HL-1 cells



GAPDH



(Pro-)Interleukin-1 β

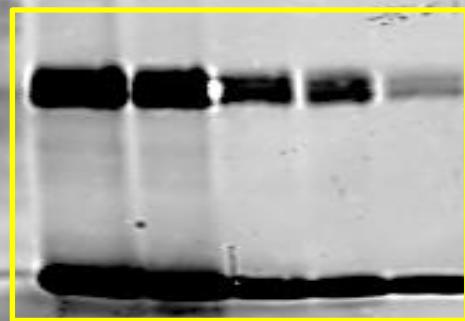
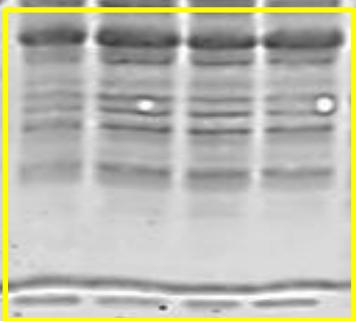
Human atrial whole-
tissue lysates

HL-1 cells

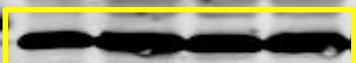
Recombinant IL-1 β

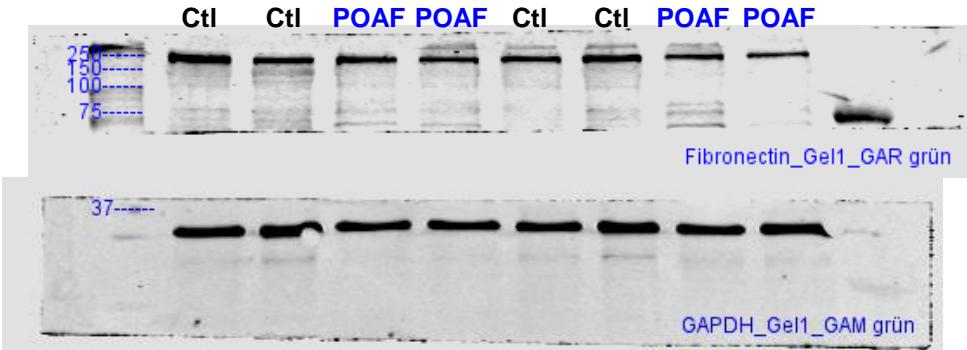
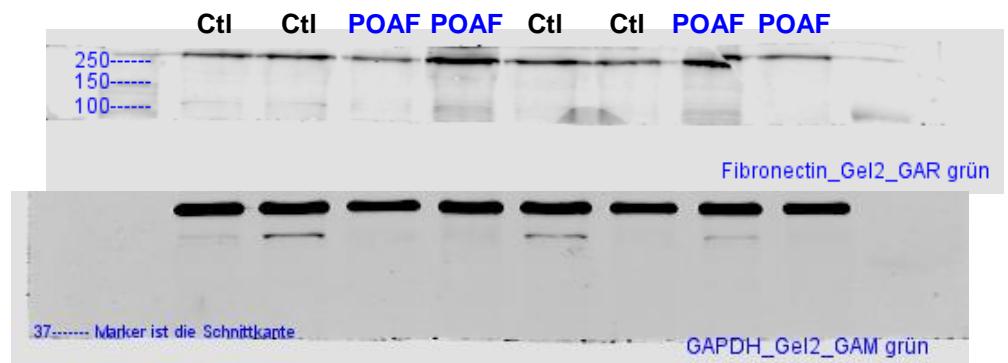
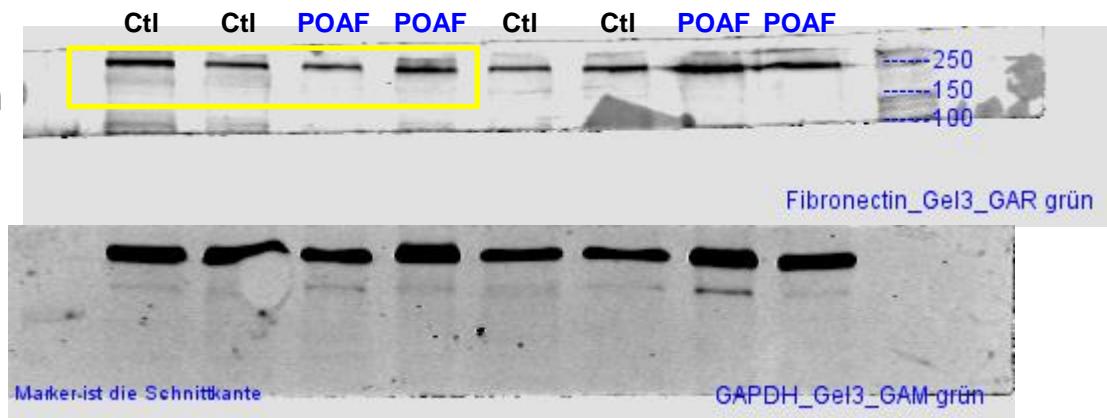
Ctl Ctl Ctl Ctl

+



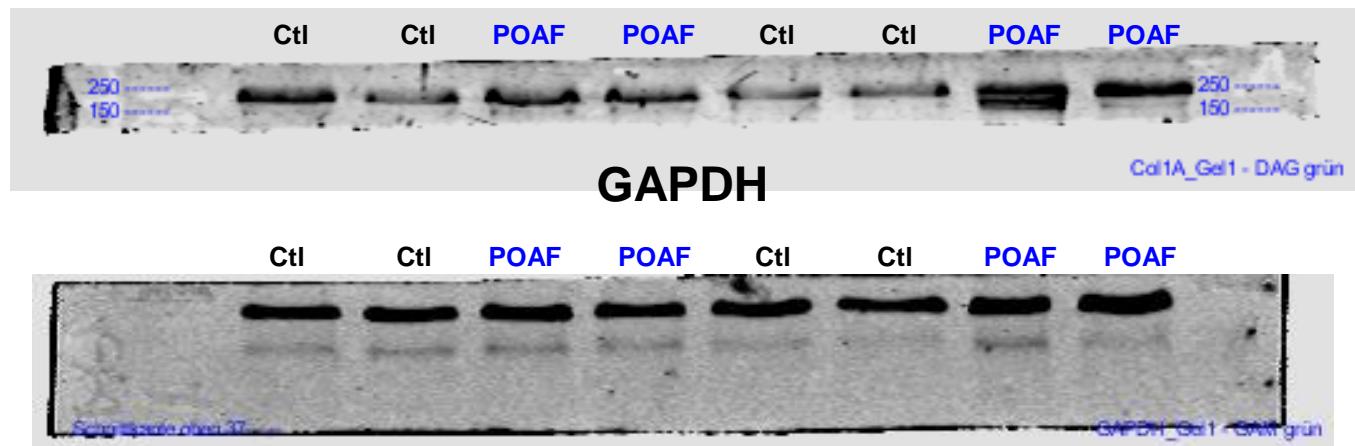
GAPDH



Fibronectin**Fibronectin****Fibronectin**

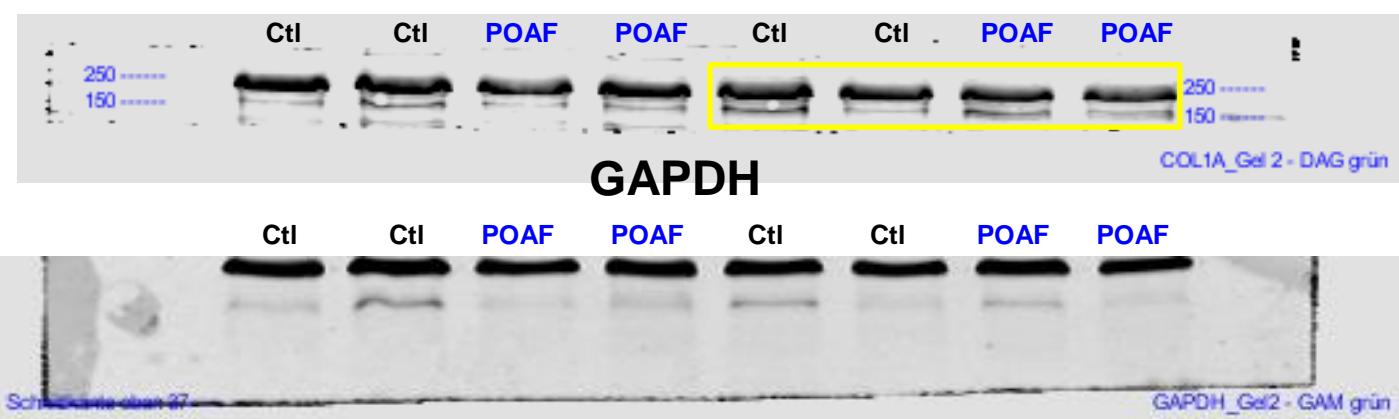
Gel 1 / 3

Collagen-1a



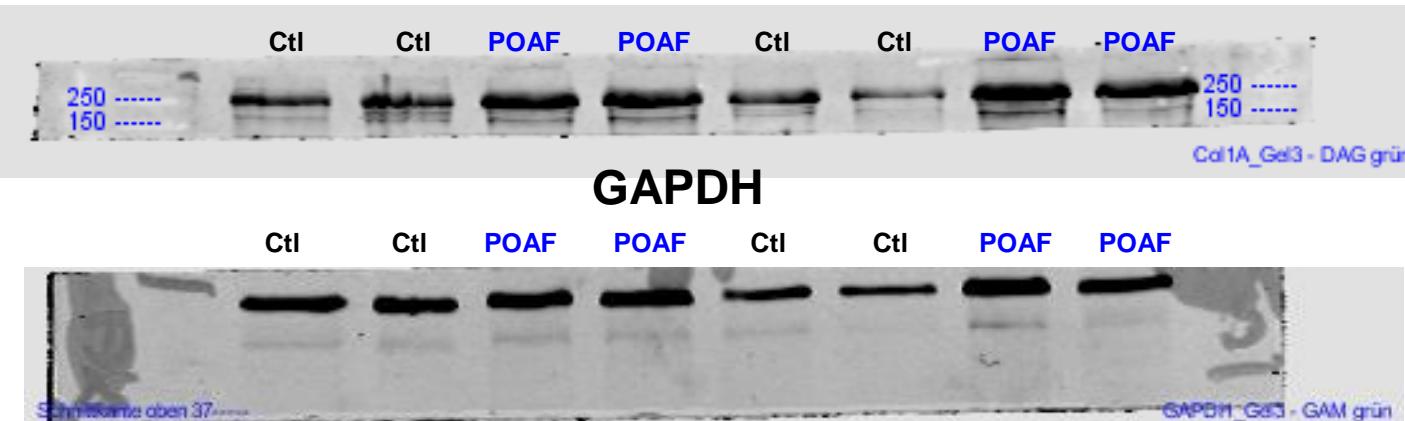
Gel 2 / 3

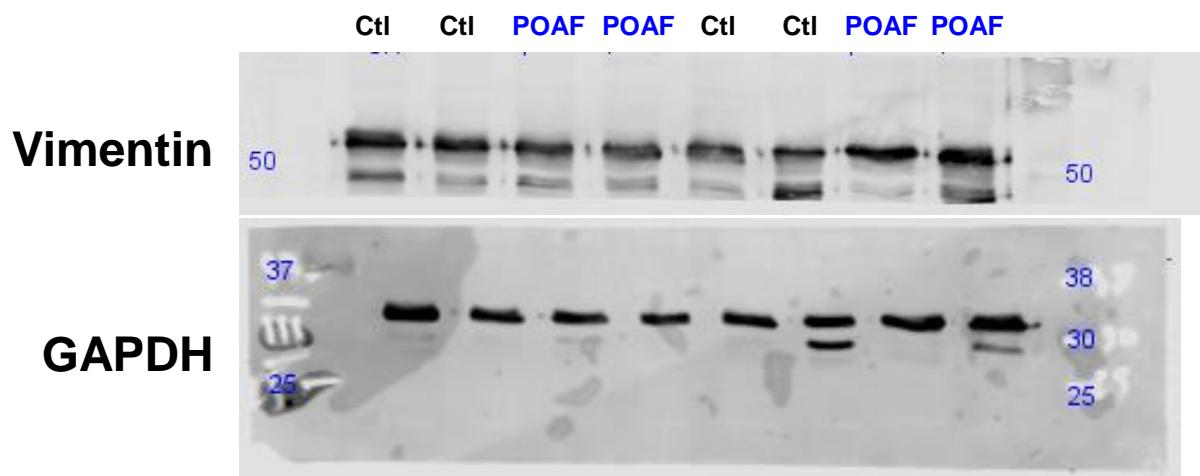
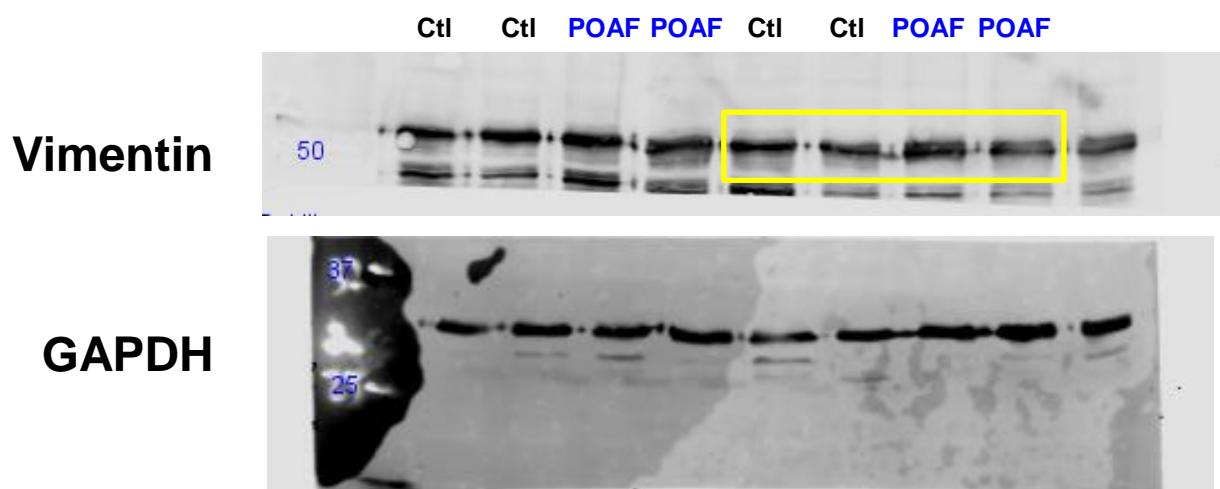
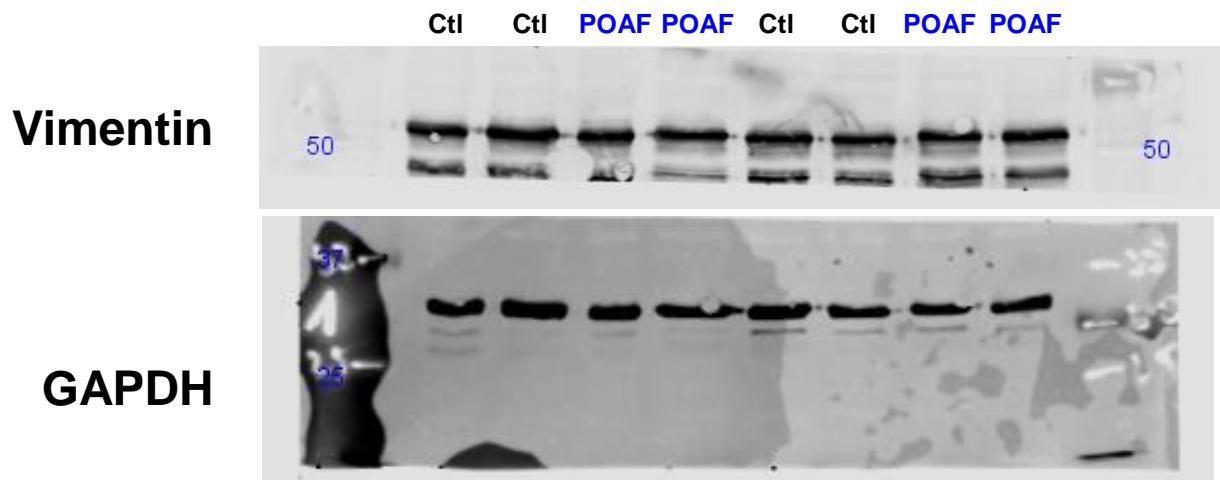
Collagen-1a



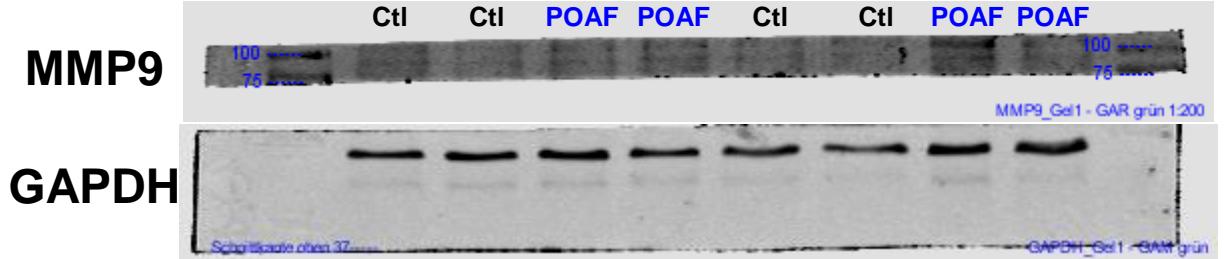
Gel 3 / 3

Collagen-1a

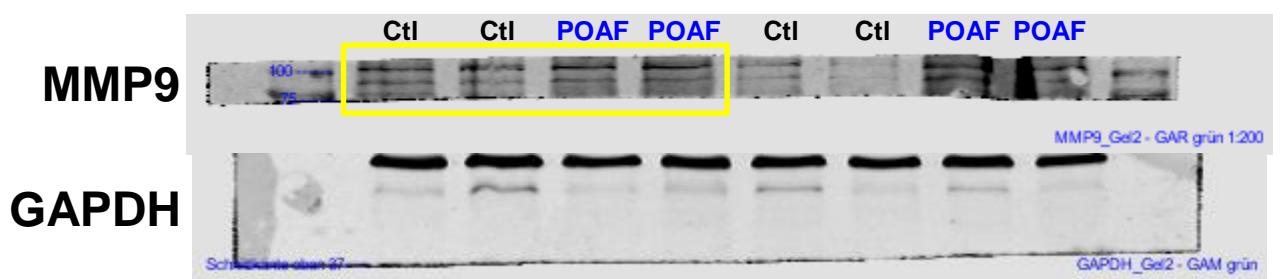




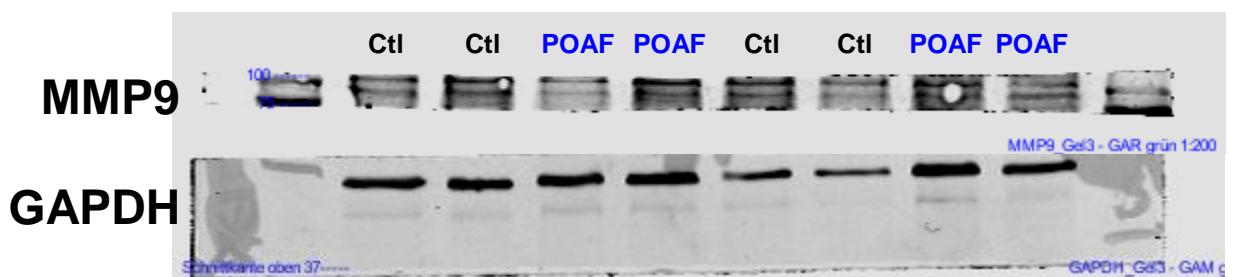
Gel 1 / 3



Gel 2 / 3



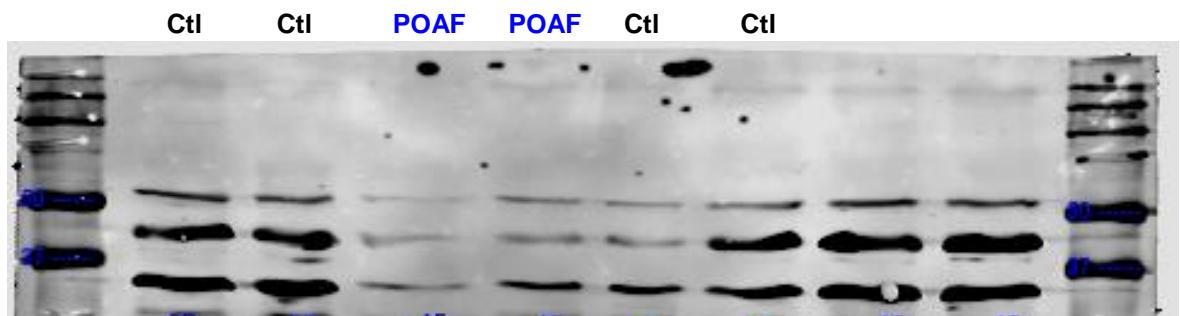
Gel 3 / 3



Online Figure XIII – Human atrial whole-tissue lysates

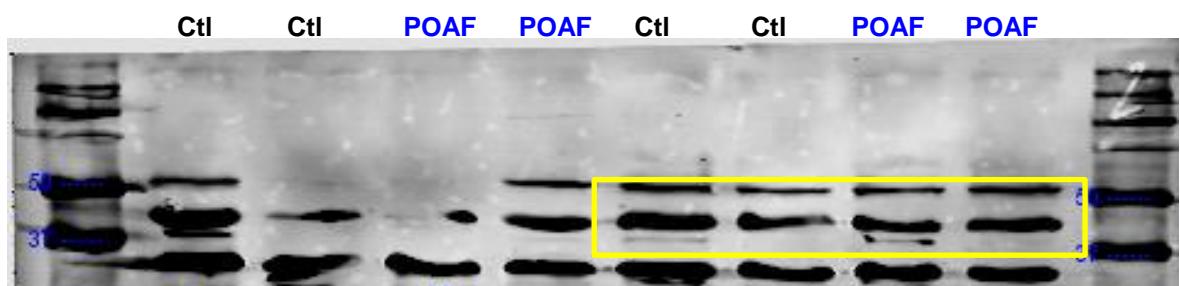
Gel 1 / 2

α -SMA

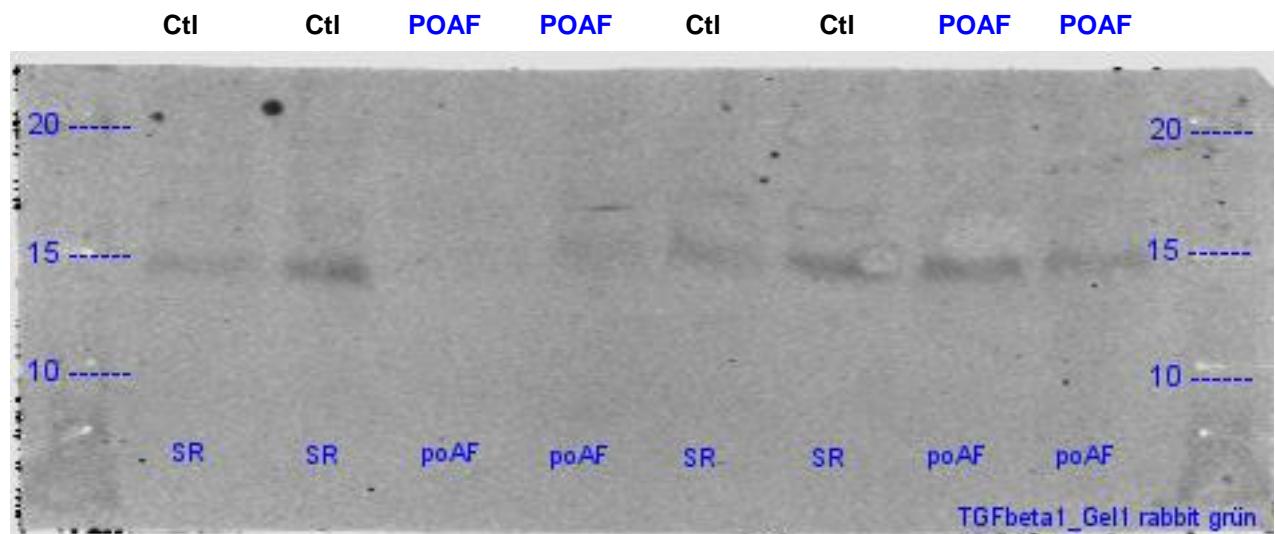
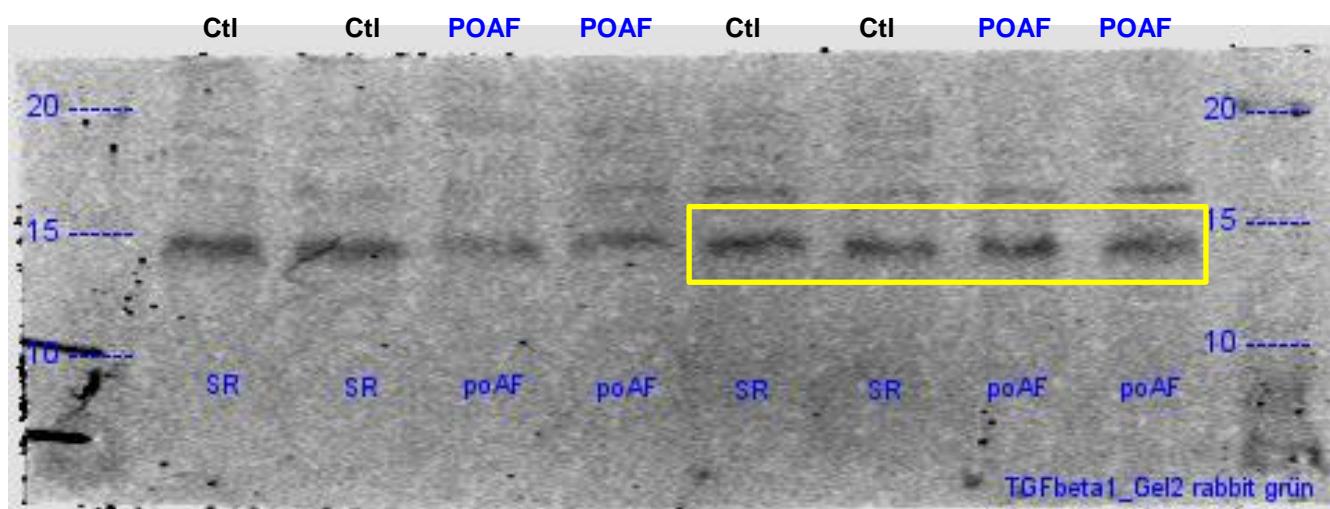


Gel 2 / 2

α -SMA

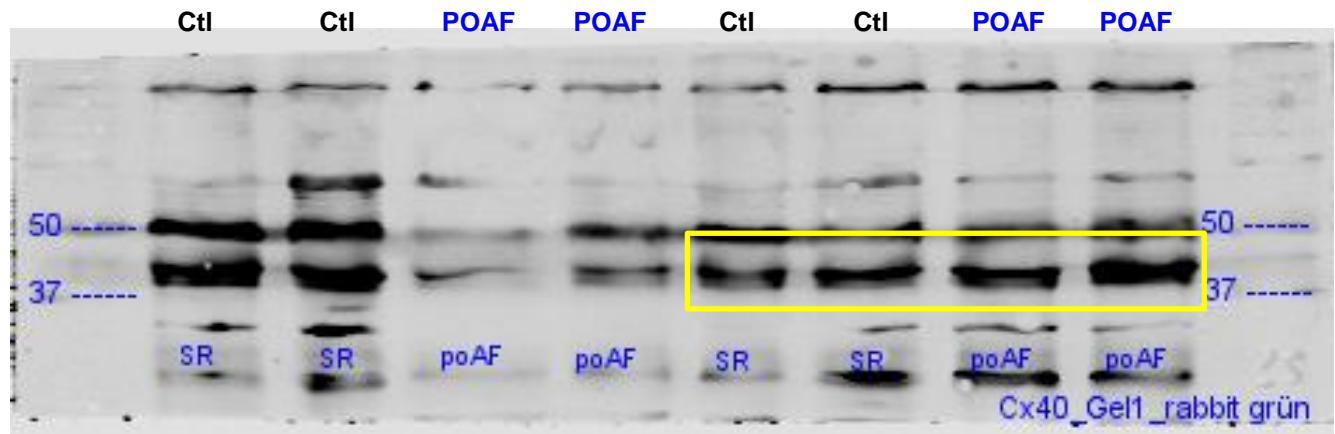


Online Figure XIII – Human atrial whole-tissue lysates

TGF- β 1**TGF- β 1**

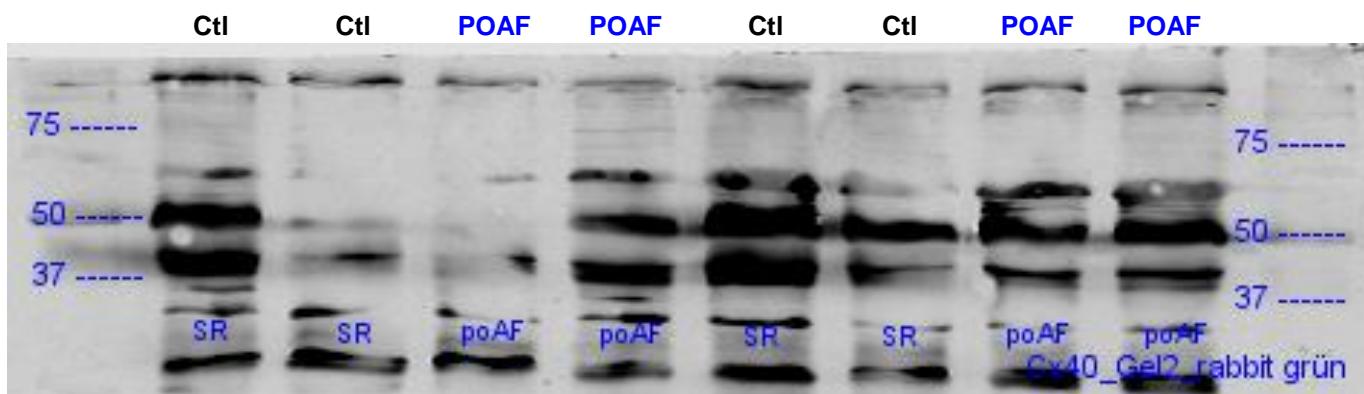
Gel 1 / 2

Total-Connexin-40



Gel 2 / 2

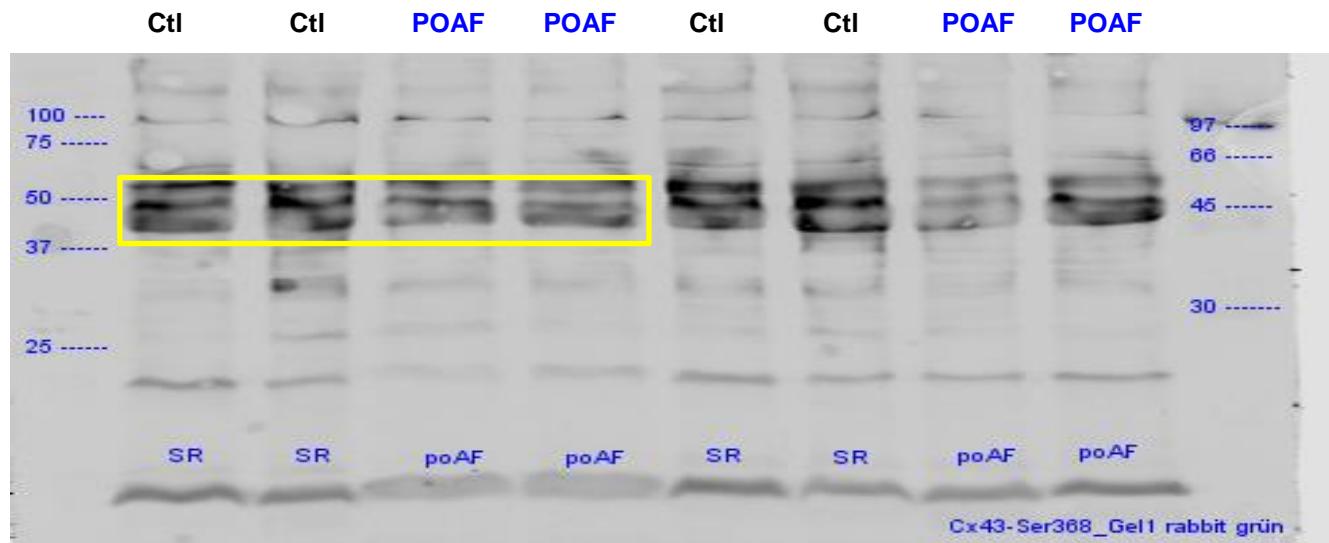
Total-Connexin-40



Online Figure XIV – Human atrial whole-tissue lysates

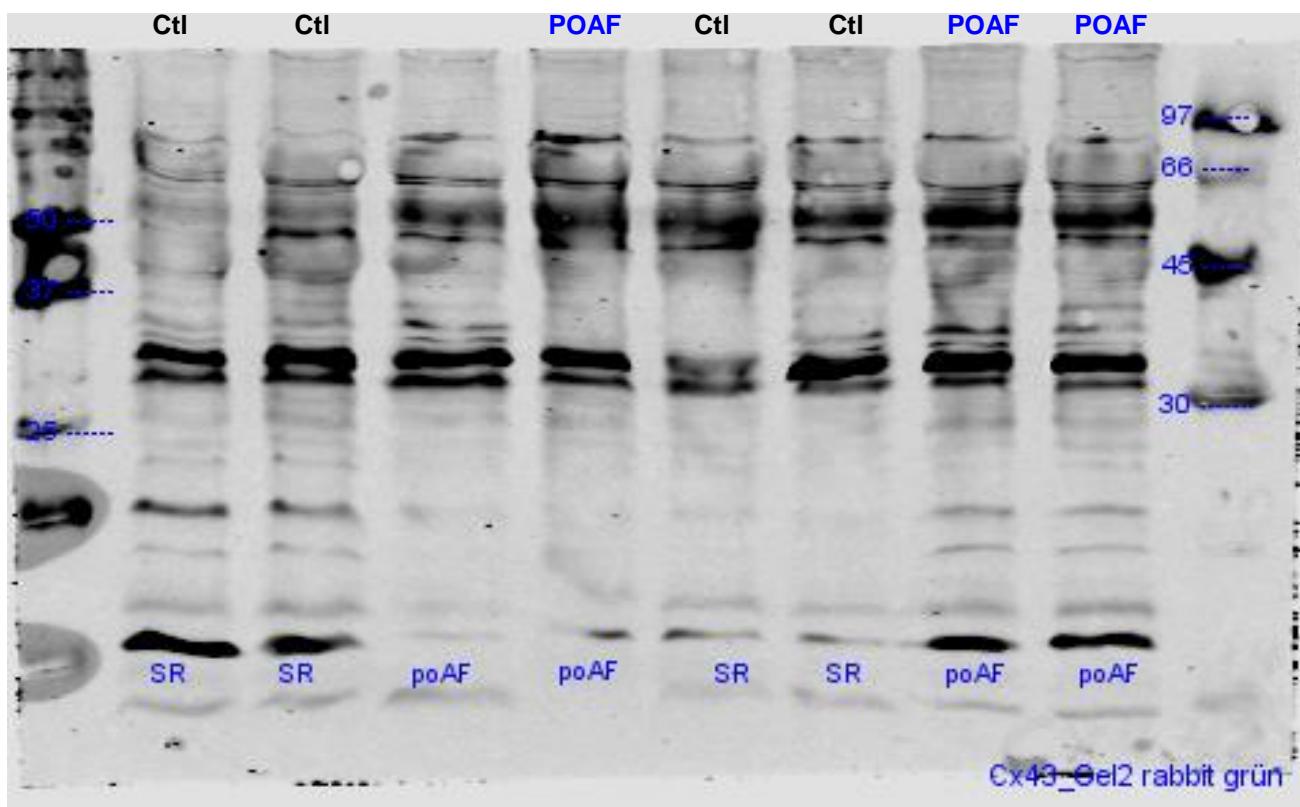
Gel 1 / 2

Connexin-43



Gel 2 / 2

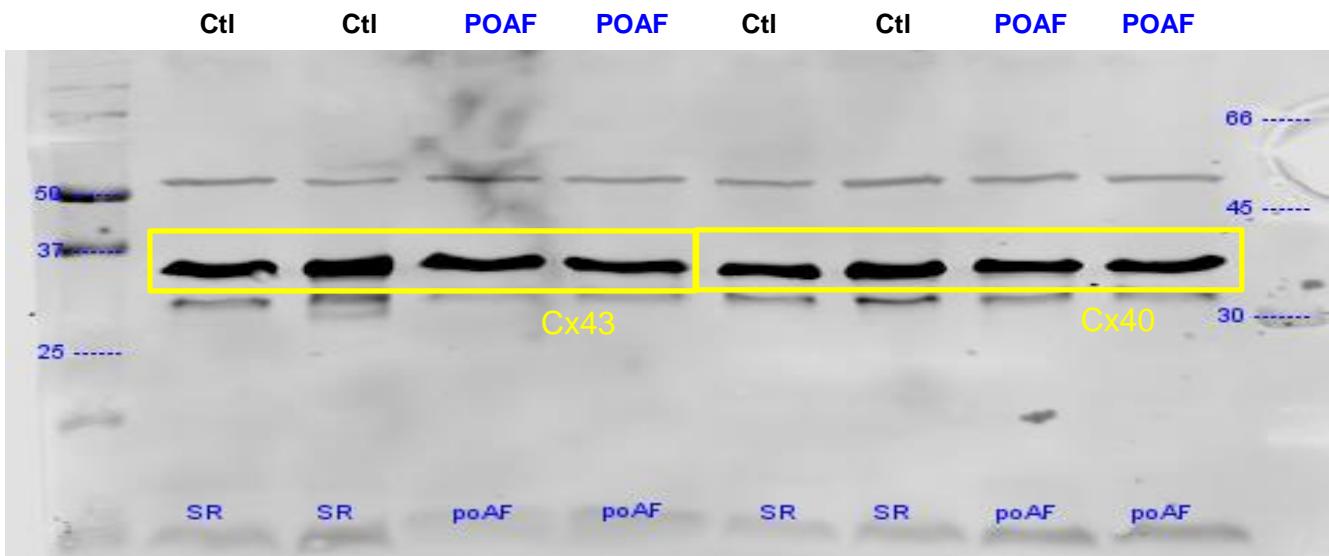
Connexin-43



Online Figure XIV – Human atrial whole-tissue lysates

Gel 1 / 2

GAPDH



Gel 2 / 2

GAPDH

