

Figure 1d

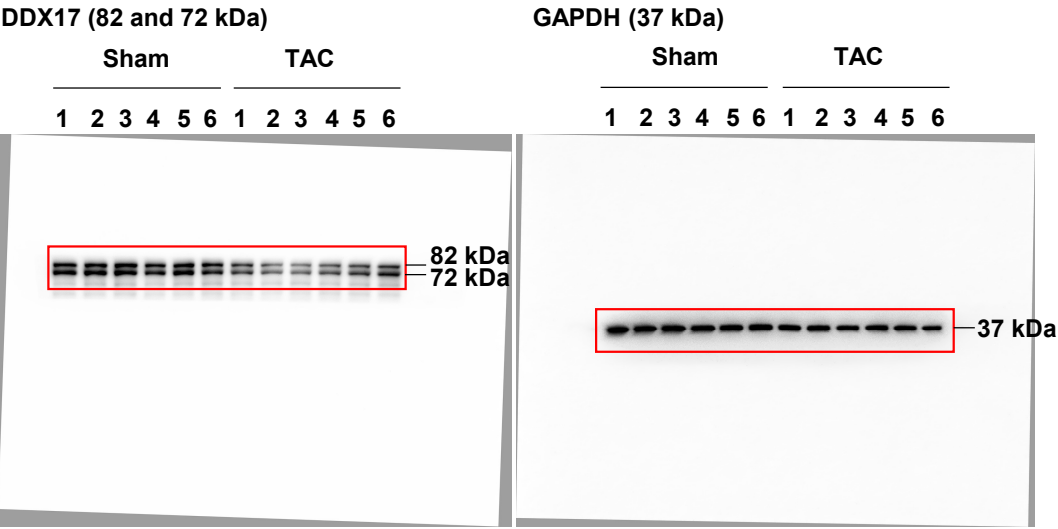


Figure 1k

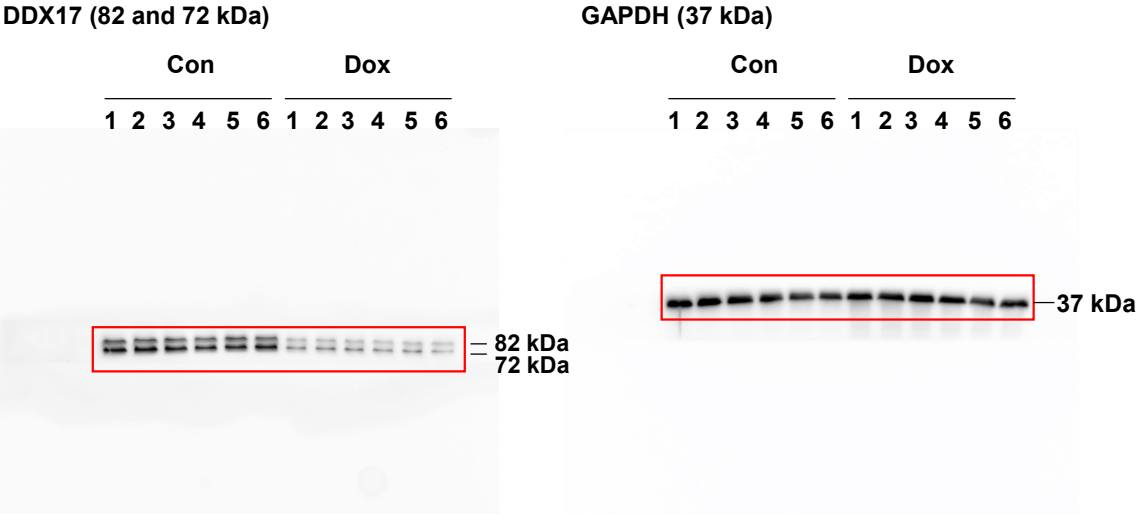


Figure 1m

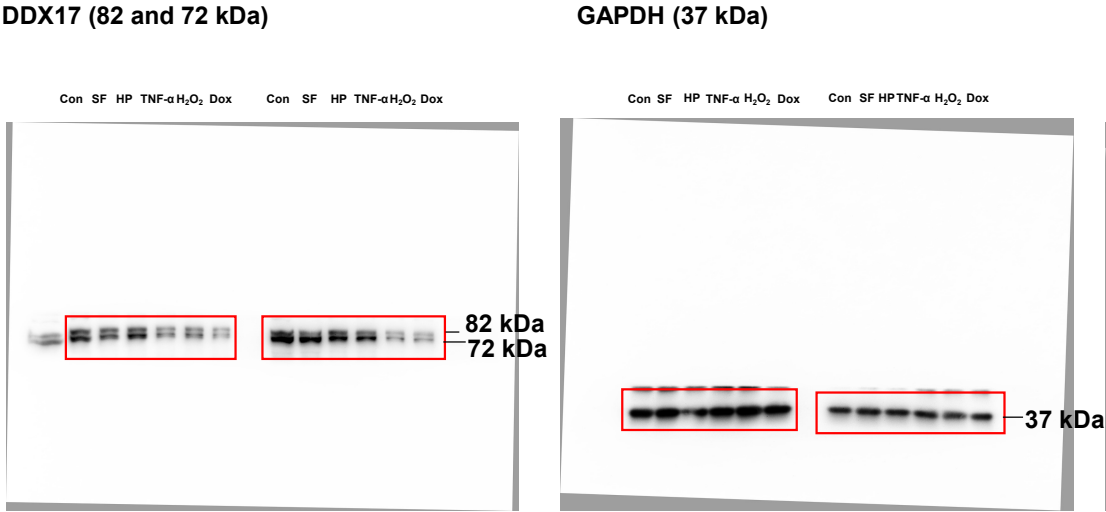


Figure 1m

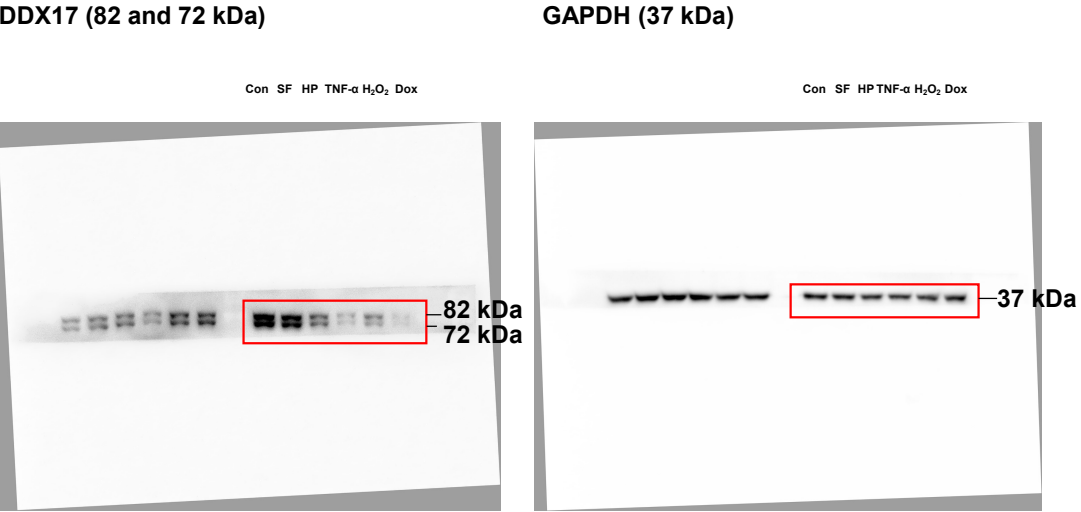


Figure 1o

DDX17 (82 and 72 kDa)

Normoxia			Hypoxia			Normoxia			Hypoxia		
1	2	3	1	2	3	1	2	3	1	2	3



GAPDH (37 kDa)

Normoxia			Hypoxia			Normoxia			Hypoxia		
1	2	3	1	2	3	1	2	3	1	2	3



DDX17 (82 and 72 kDa)

Normoxia			Hypoxia			Normoxia			Hypoxia		
1	2	3	1	2	3	1	2	3	1	2	3



GAPDH (37 kDa)

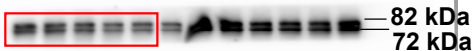
Normoxia			Hypoxia			Normoxia			Hypoxia		
1	2	3	1	2	3	1	2	3	1	2	3



Figure 1q

DDX17 (82 and 72 kDa)

H ₂ O ₂ (μM)					
Con	50	100	200	300	



GAPDH (37 kDa)

H ₂ O ₂ (μM)					
Con	50	100	200	300	



Figure 1q

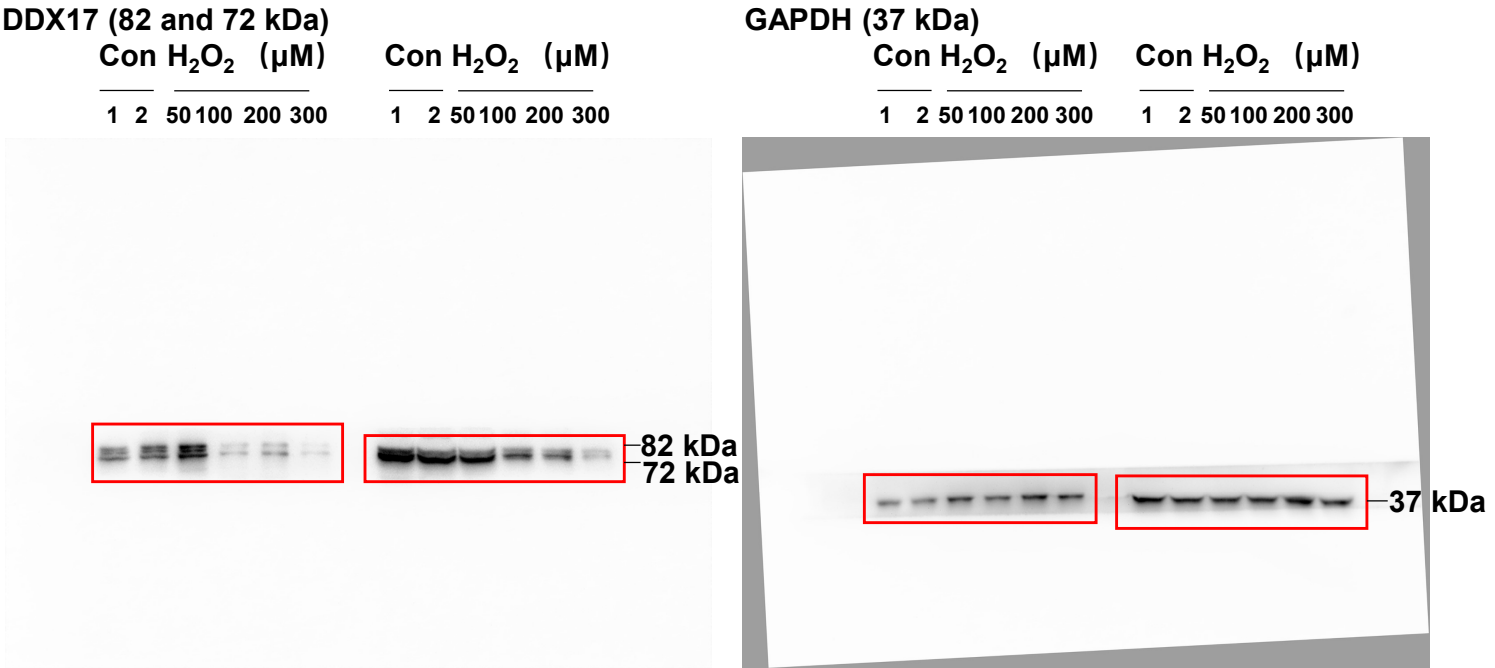


Figure 1s

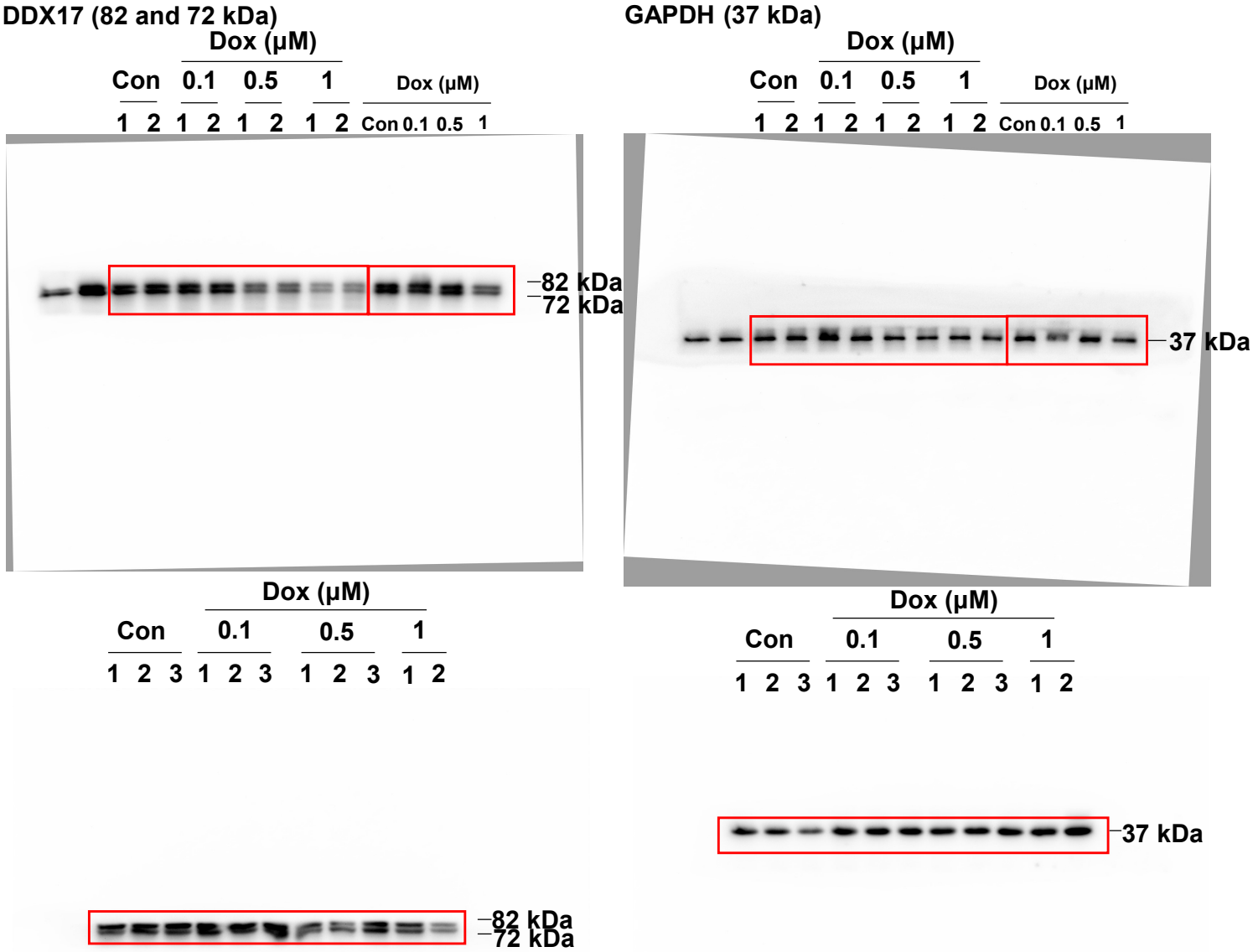
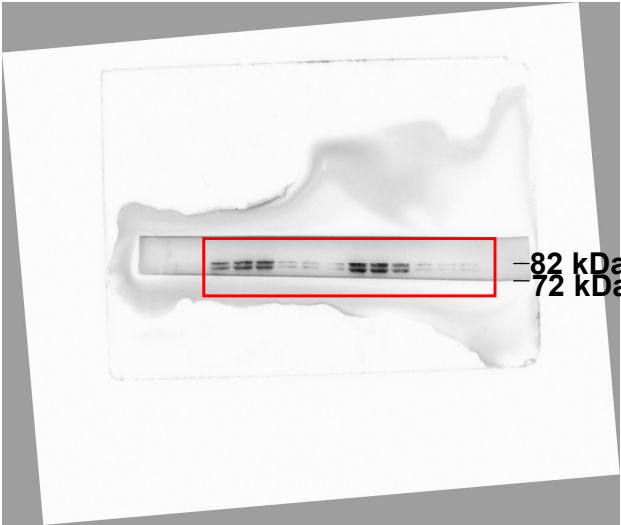


Figure 2a

DDX17 (82 and 72 kDa)

Con Ddx17-cKO Con Ddx17-cKO
1 2 3 1 2 3 4 5 6 4 5 6



GAPDH (37 kDa)

Con Ddx17-cKO Con Ddx17-cKO
1 2 3 1 2 3 4 5 6 4 5 6

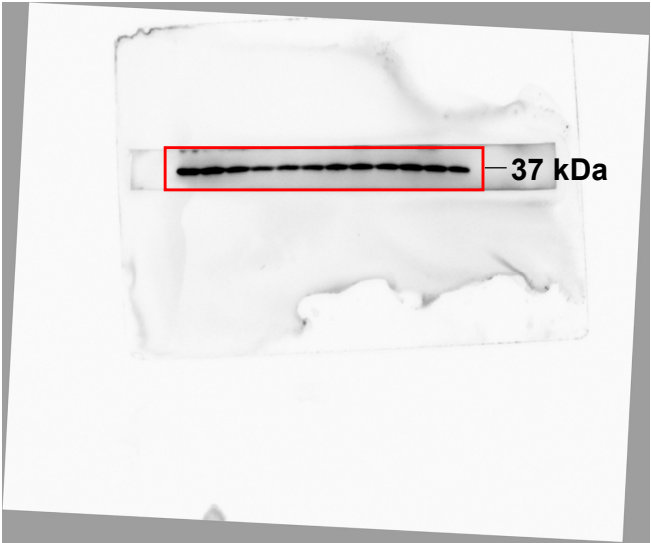
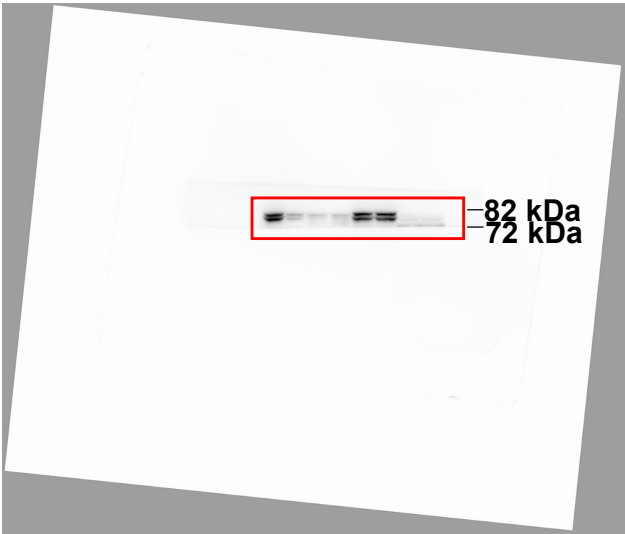


Figure 2c

DDX17 (82 and 72 kDa)

Skeleton
Heart Muscle Liver Kidney
C KO C KO C KO C KO



GAPDH (37 kDa)

Skeleton
Heart Muscle Liver Kidney
C KO C KO C KO C KO

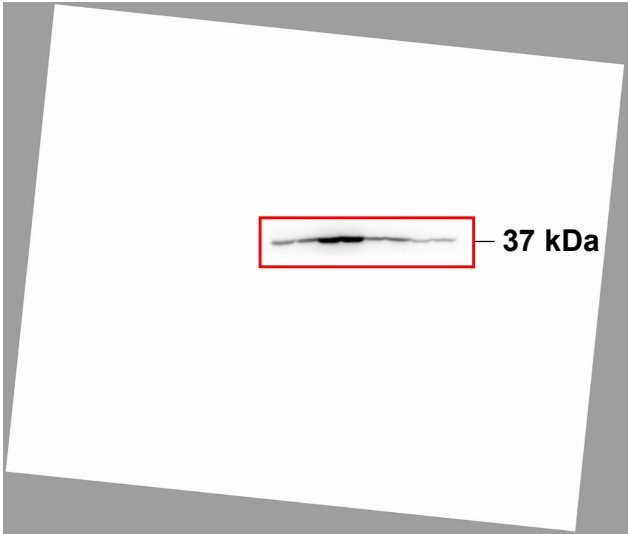
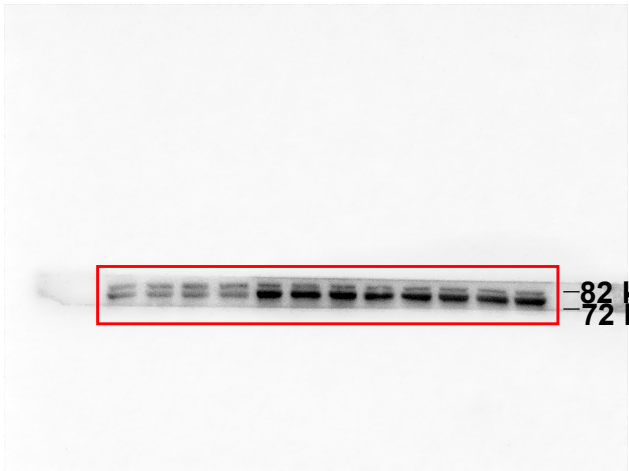


Figure 3a

DDX17 (82 and 72 kDa)

Con Ddx17-Tg-H Ddx17-Tg
1 2 3 4 1 2 3 4 1 2 3 4



GAPDH (37 kDa)

Con Ddx17-Tg-H Ddx17-Tg
1 2 3 4 1 2 3 4 1 2 3 4

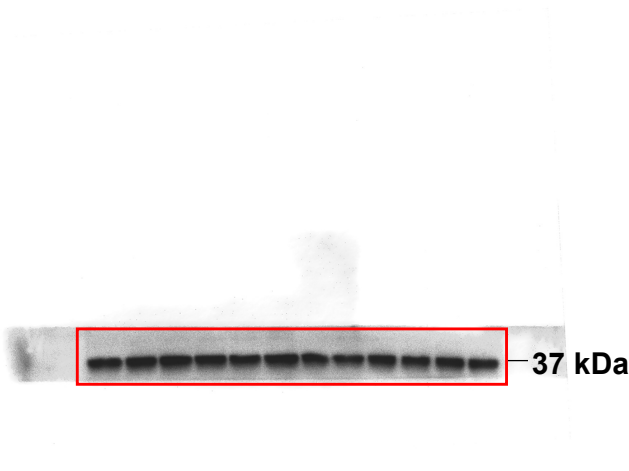
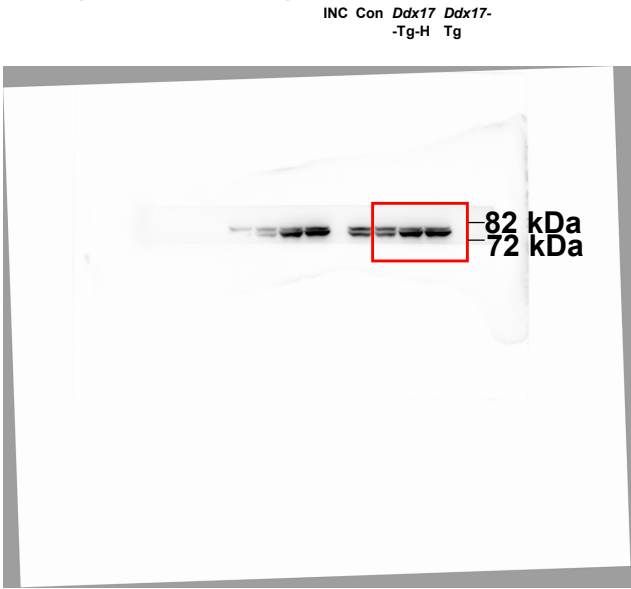


Figure 3a

DDX17 (82 and 72 kDa)



GAPDH (37 kDa)

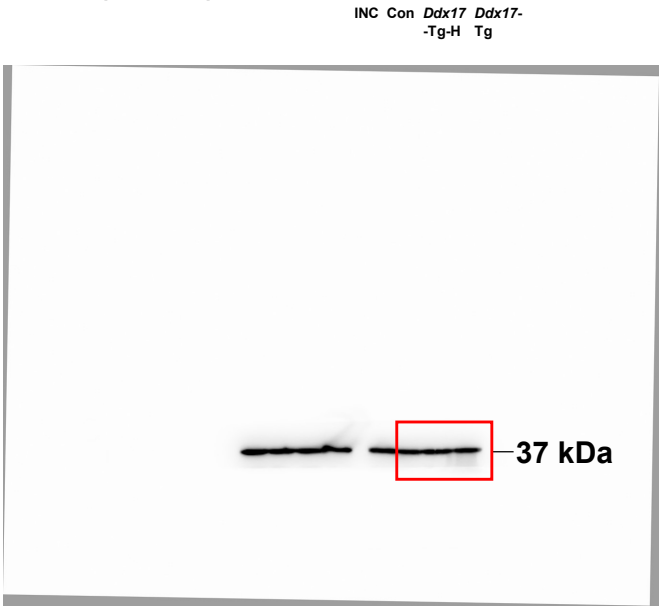


Figure 3b

DDX17 (82 and 72 kDa)



GAPDH (37 kDa)

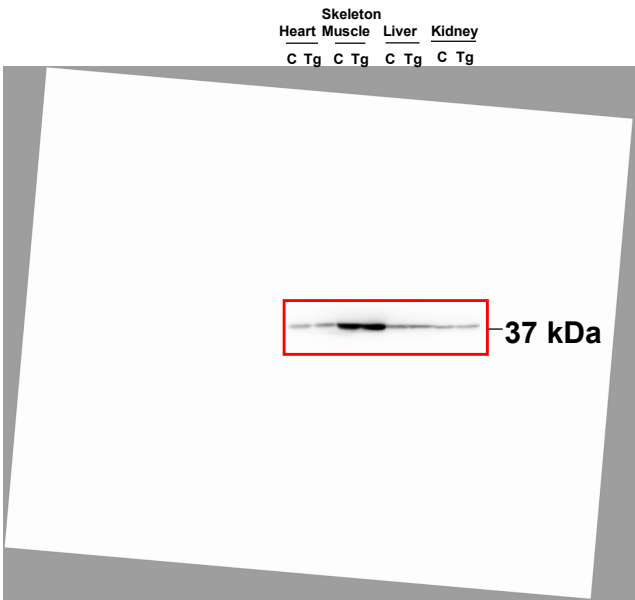
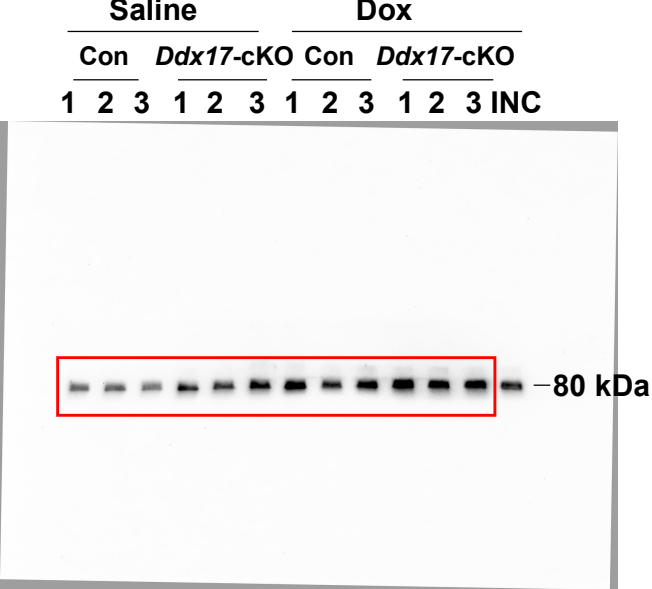
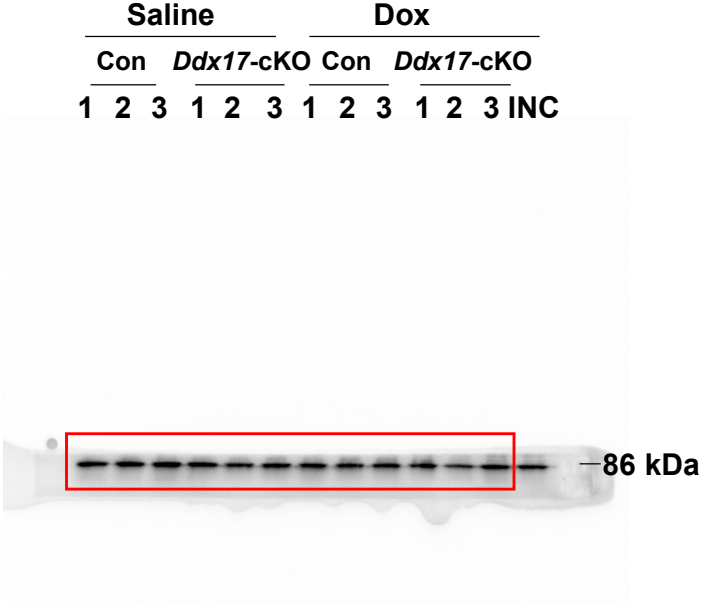


Figure 4s

DRP1 (80 kDa)



MFN1 (86 kDa)



INC: internal positive control

Figure 4s

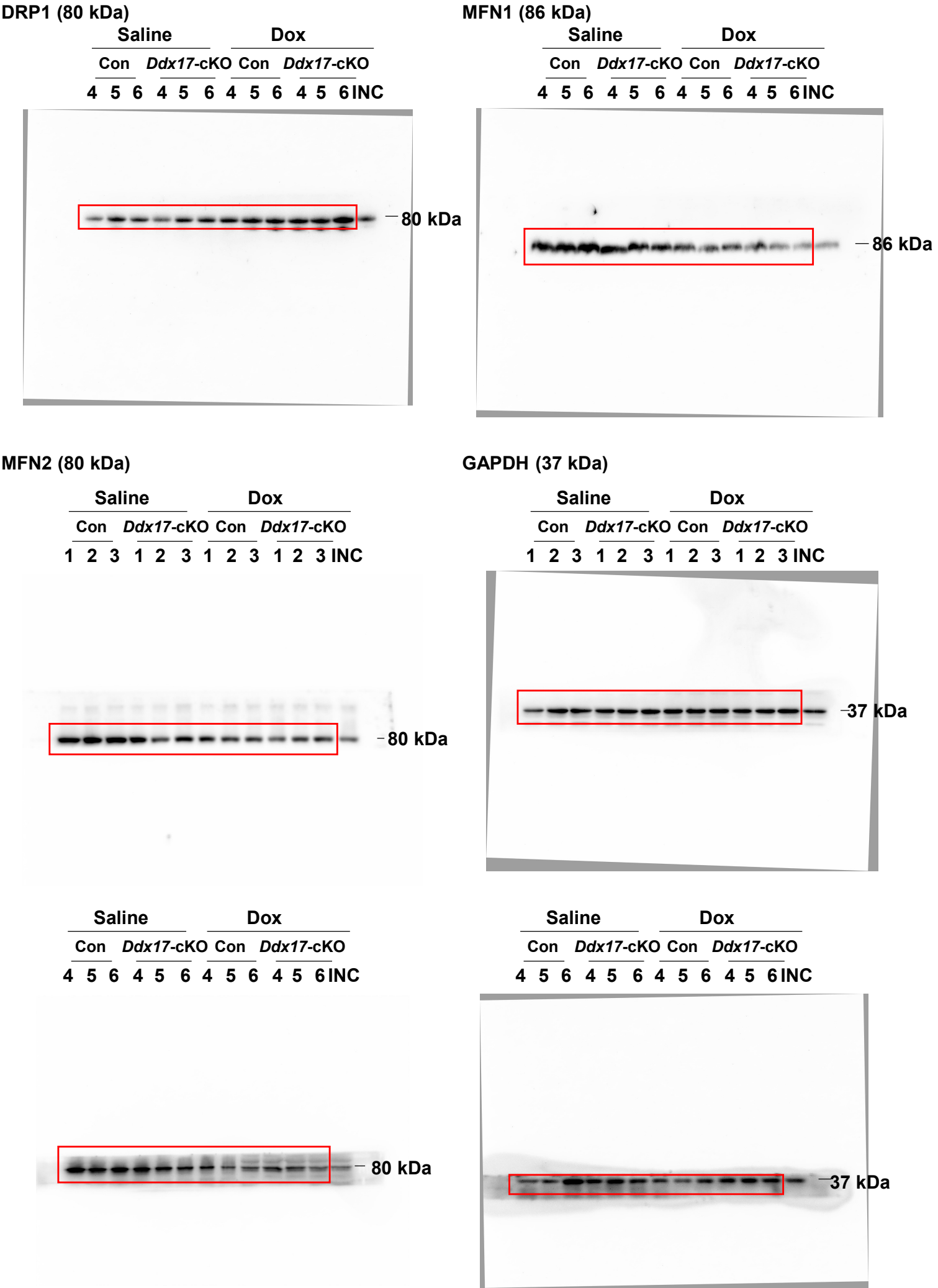


Figure 4s

GAPDH (37 kDa)

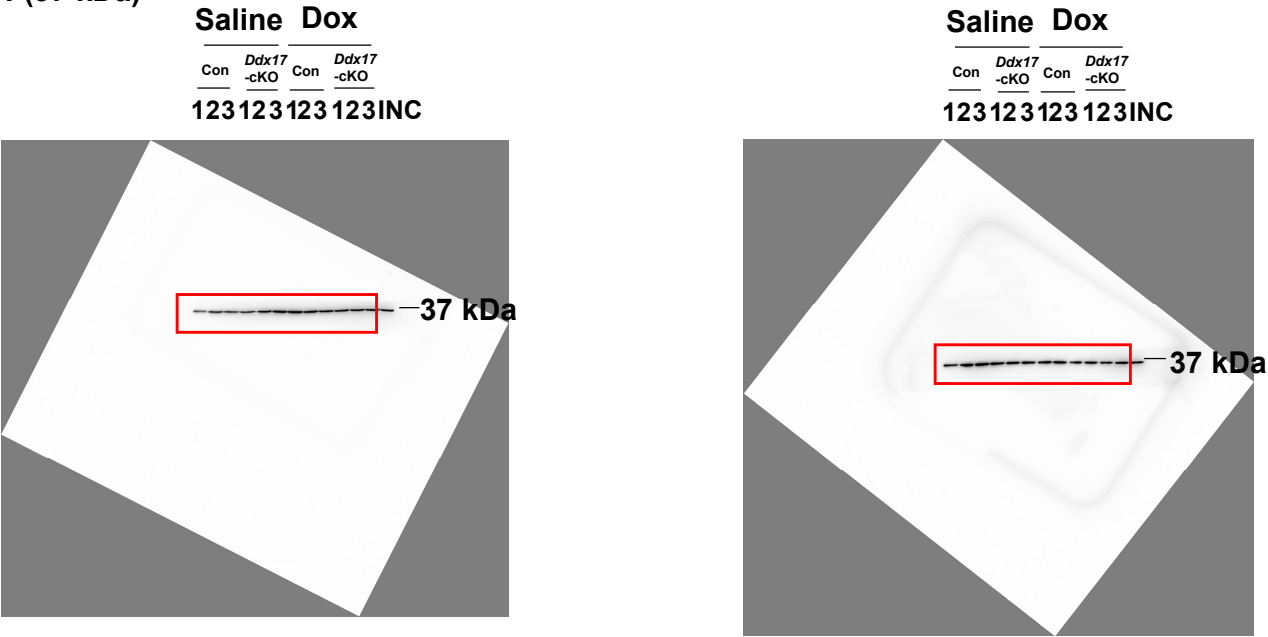
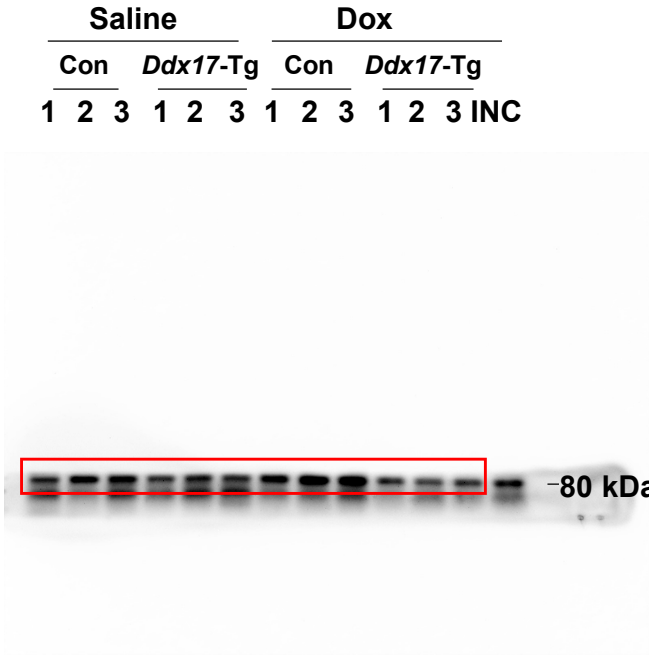
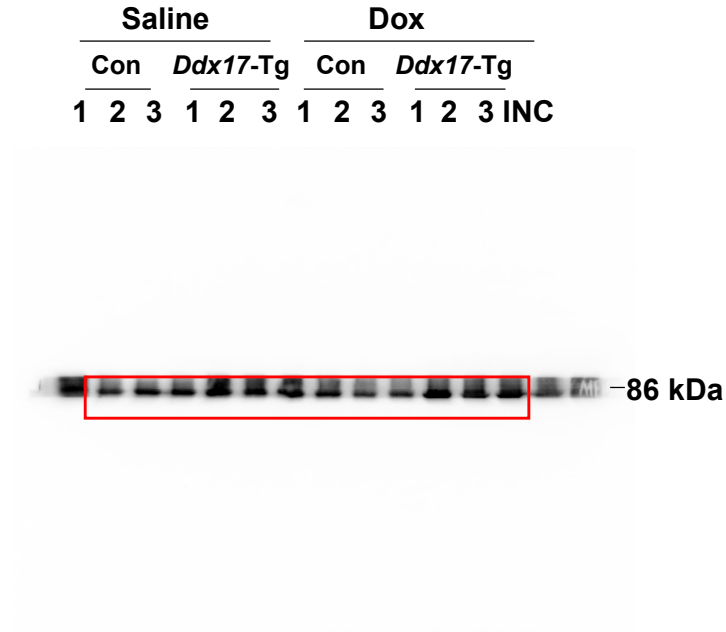


Figure 4t

DRP1 (80 kDa)



MFN1 (86 kDa)

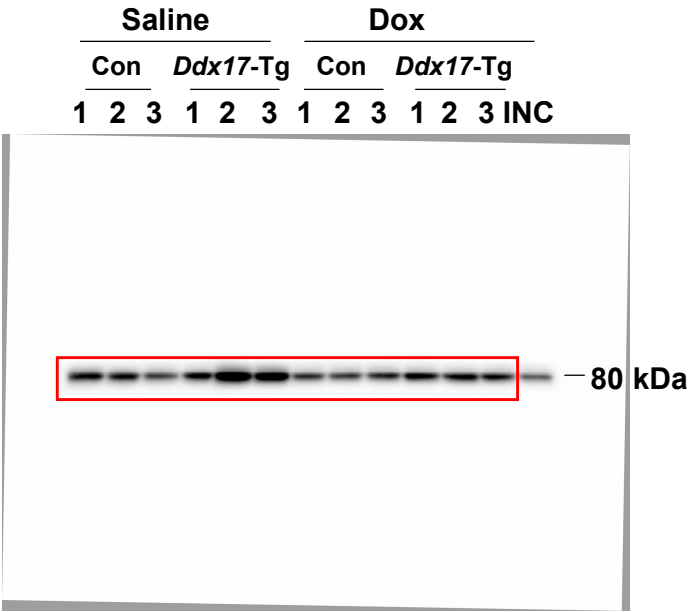


Saline						Dox					
Con			Ddx17-Tg			Con			Ddx17-Tg		
4	5	6	4	5	6	4	5	6	4	5	6
INC											

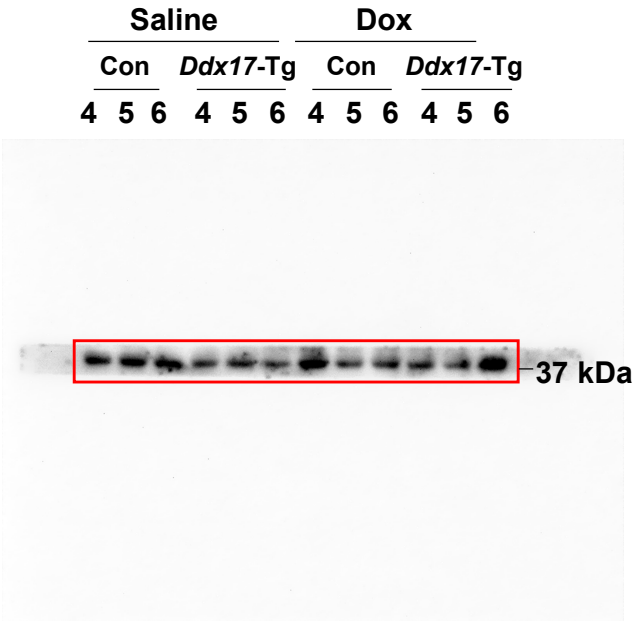
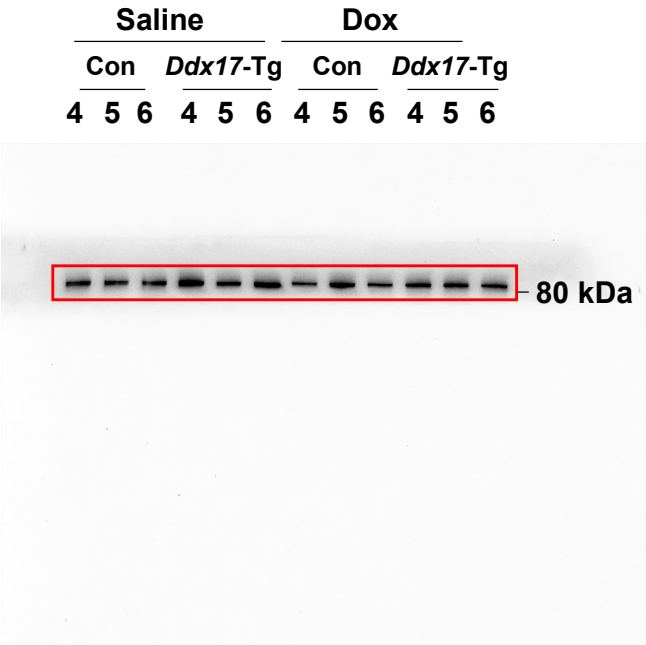
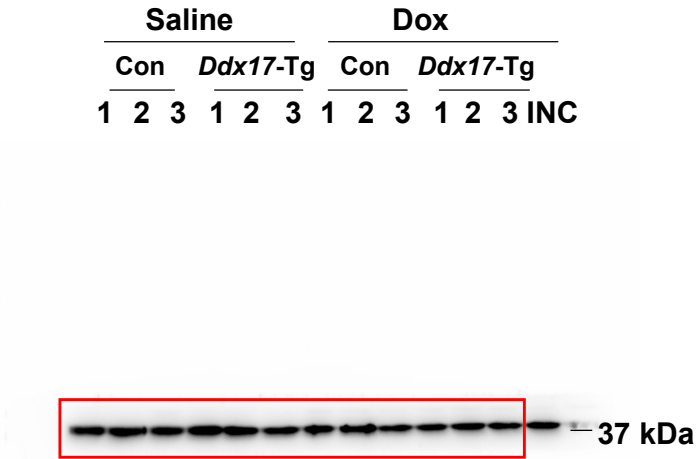
Saline						Dox					
Con			Ddx17-Tg			Con			Ddx17-Tg		
4	5	6	4	5	6	4	5	6	4	5	6
INC											

Figure 4t

MFN2 (80 kDa)



GAPDH (37 kDa)



GAPDH (37 kDa)

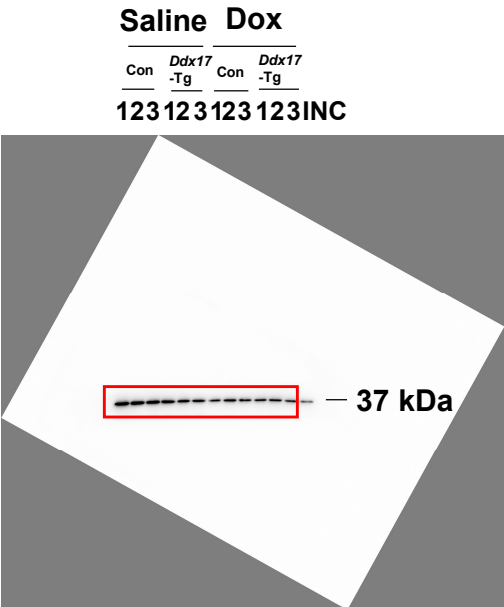
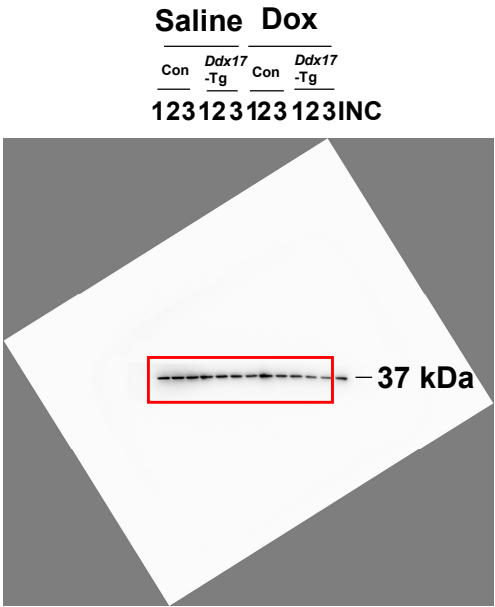


Figure 5d

DDX17 (82 and 72 kDa)

BCL6 (87 kDa)



Figure 5e

DDX17 (82 and 72 kDa)

BCL6 (87 kDa)

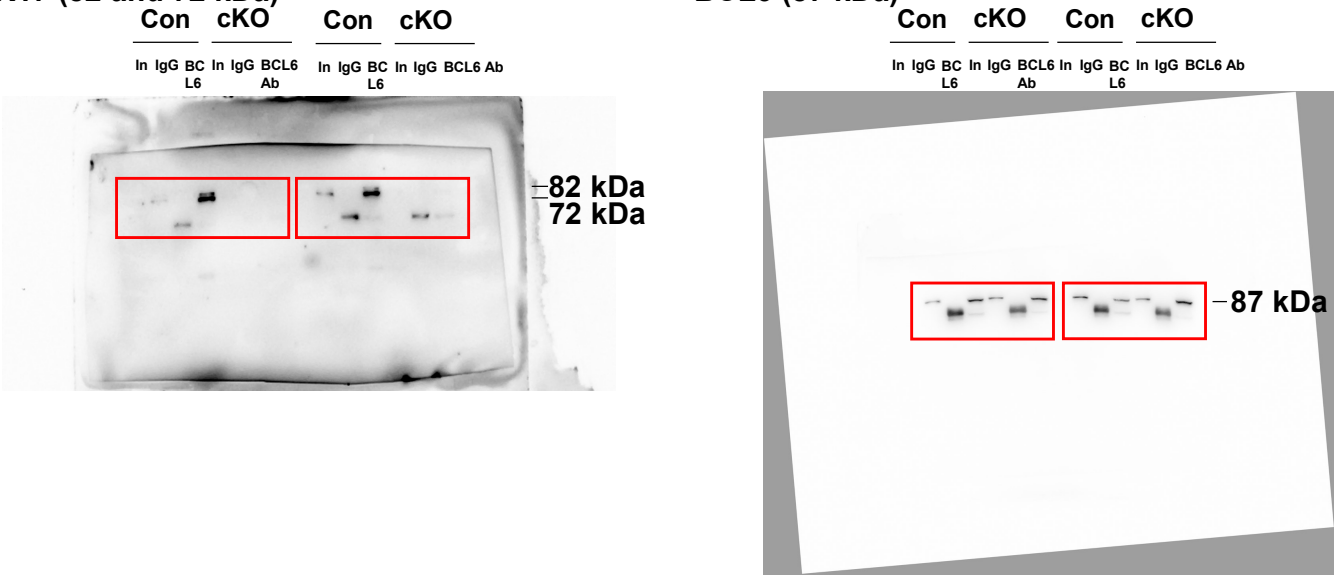


Figure 5k

DDX17 (82 and 72 kDa)

DRP1 (80 kDa)

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +

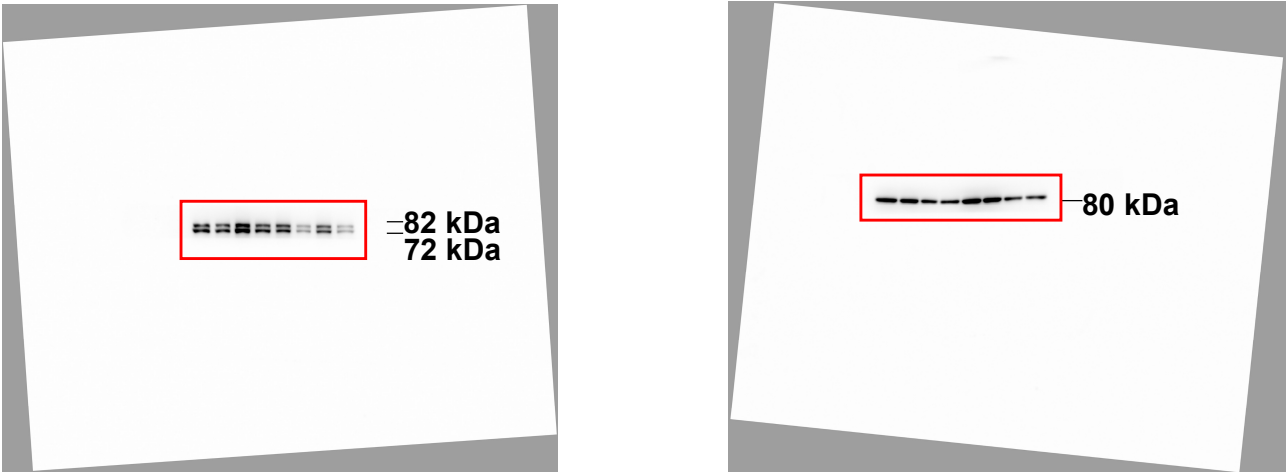
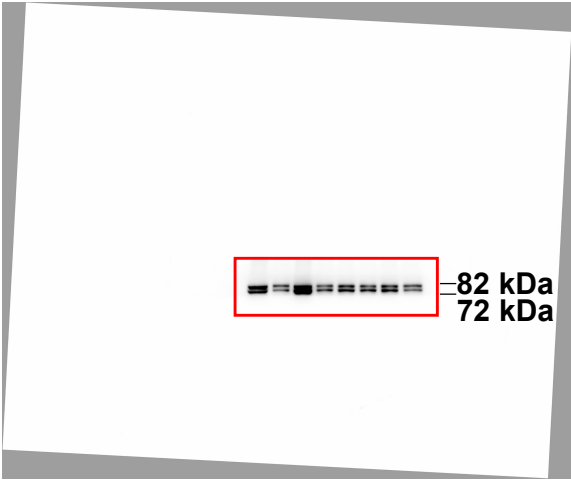


Figure 5k

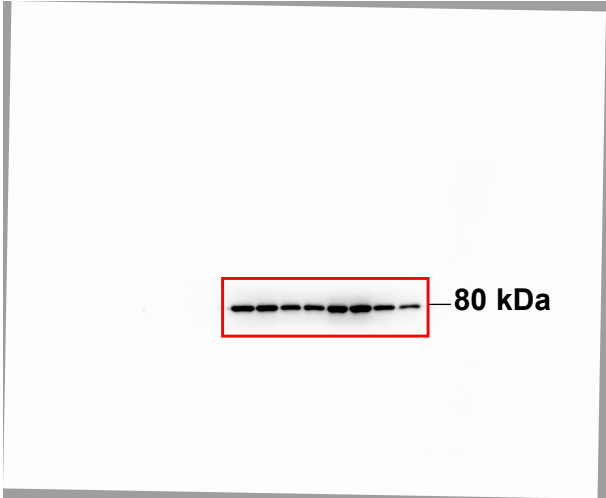
DDX17 (82 and 72 kDa)

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +

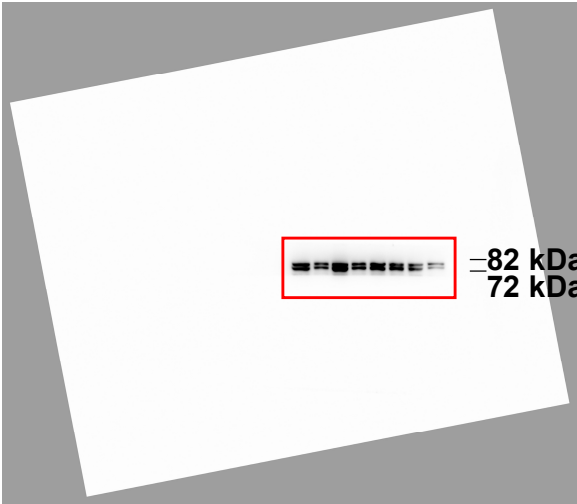


DRP1 (80 kDa)

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +



Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +

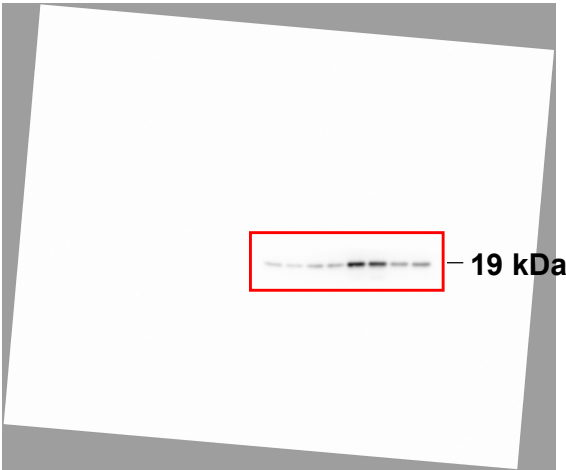


Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +



C-CASP3 (19 kDa)

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +



GAPDH (37 kDa)

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +

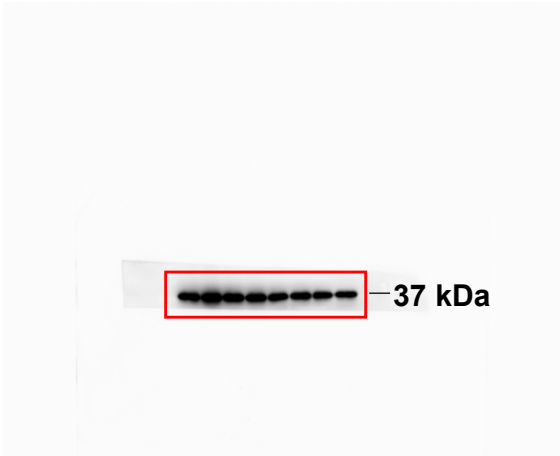


Figure 5k

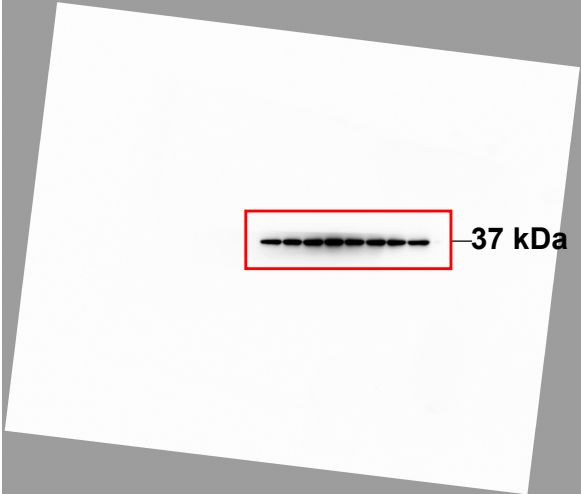
C-CASP3 (19 kDa)

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +



GAPDH (37 kDa)

Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +



Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +



Ddx17 siRNA - + - + - + - +
Drp1 siRNA - - + + - - + +
Dox - - - - + + + +

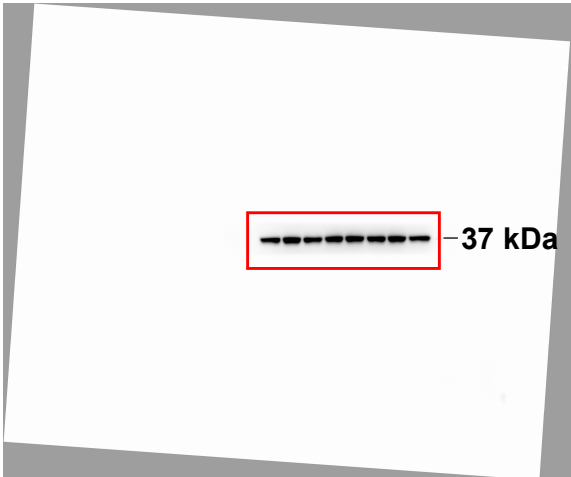
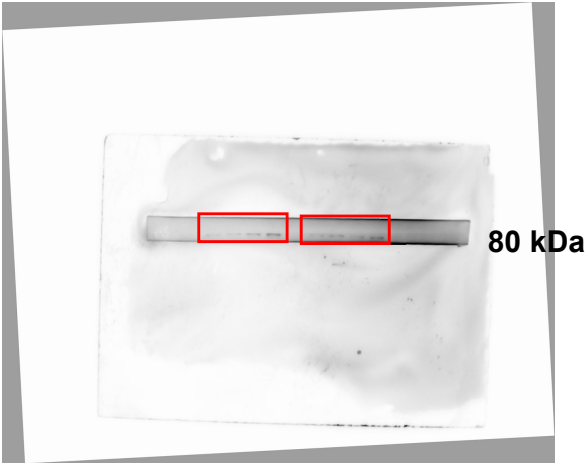


Figure 5o

Mito-DRP1 (80 kDa)

PBS		Dox		PBS		Dox	
C	KD	C	KD	C	KD	C	KD



COX IV (17 kDa)

PBS		Dox		PBS		Dox	
C	KD	C	KD	C	KD	C	KD

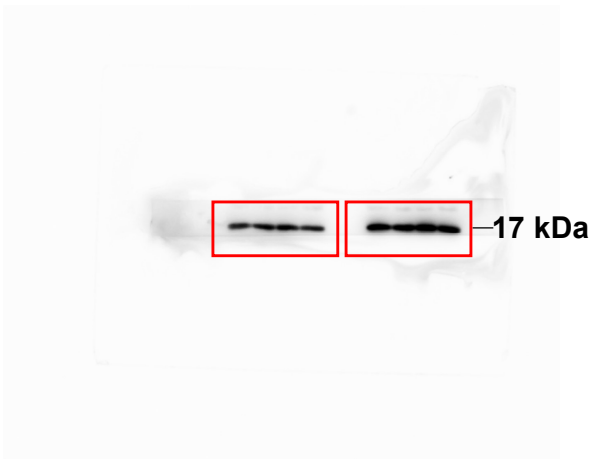
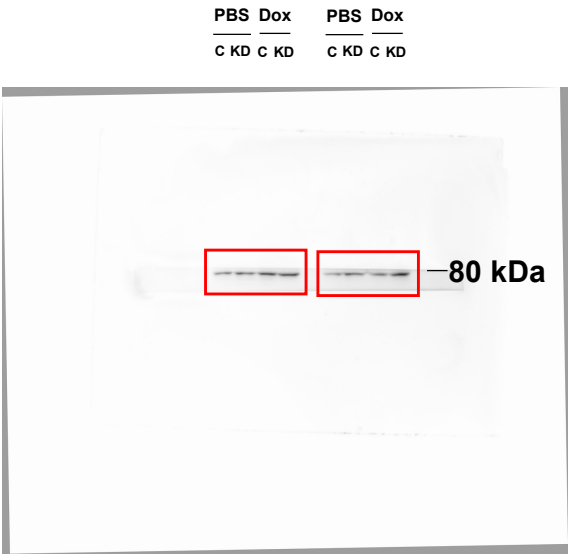


Figure 5o

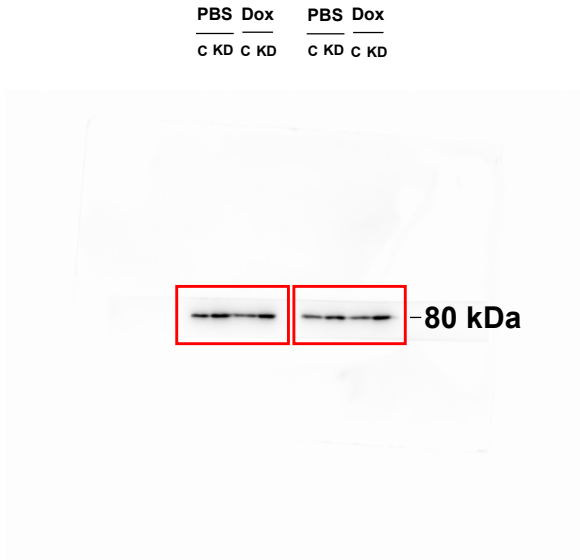
Mito-DRP1 (80 kDa)



COX IV (17 kDa)



Cyto-DRP1 (80 kDa)



Tubulin (55 kDa)

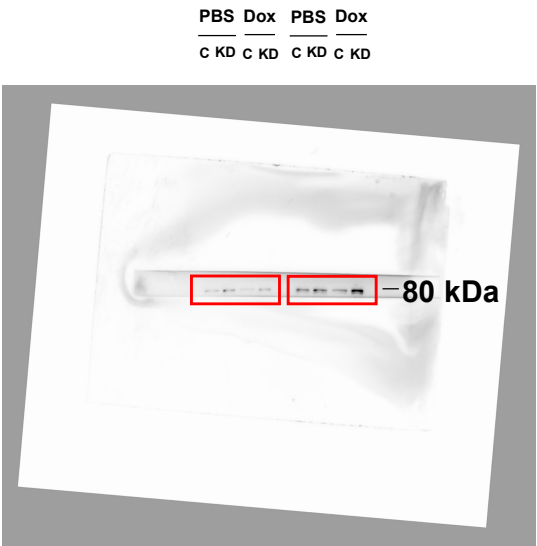
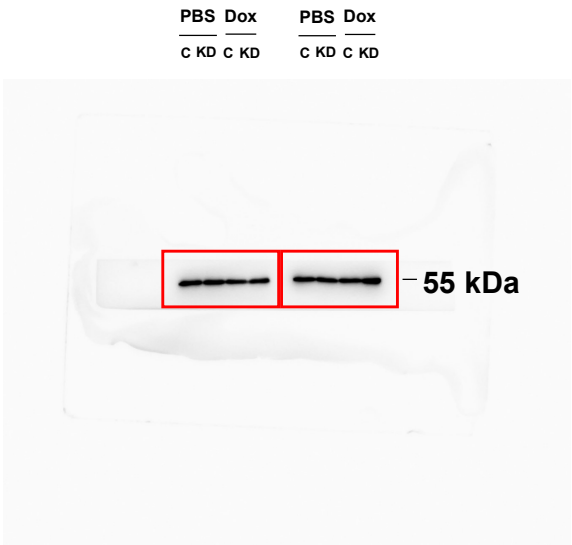
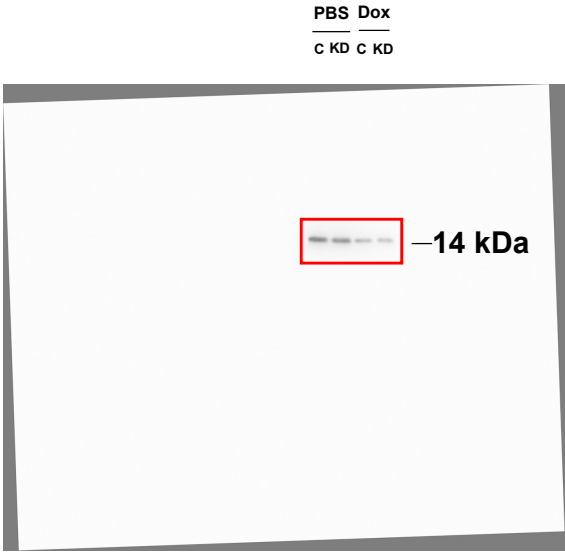


Figure 5r

Mito-Cyt C (14 kDa)



COX IV (17 kDa)

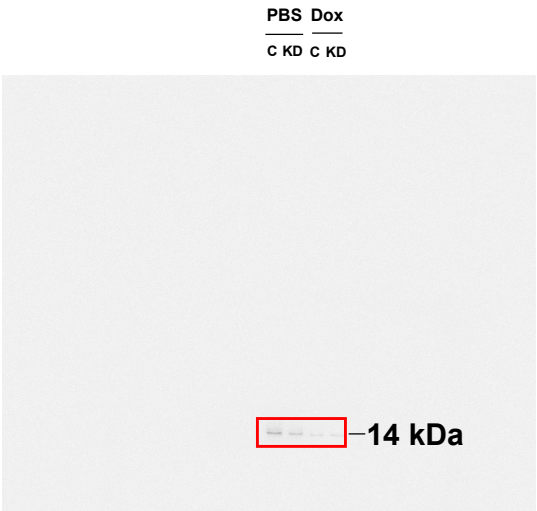
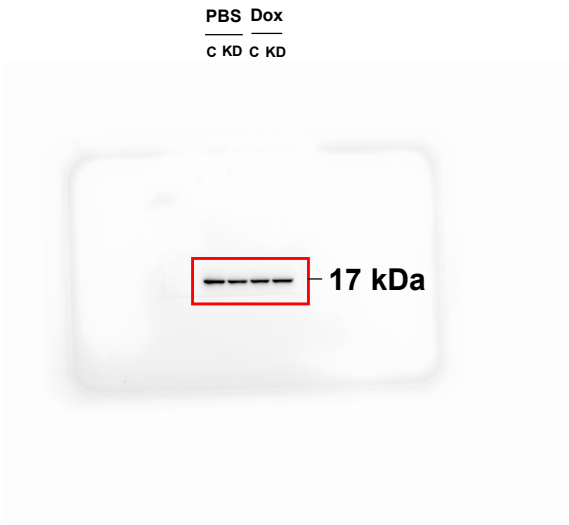
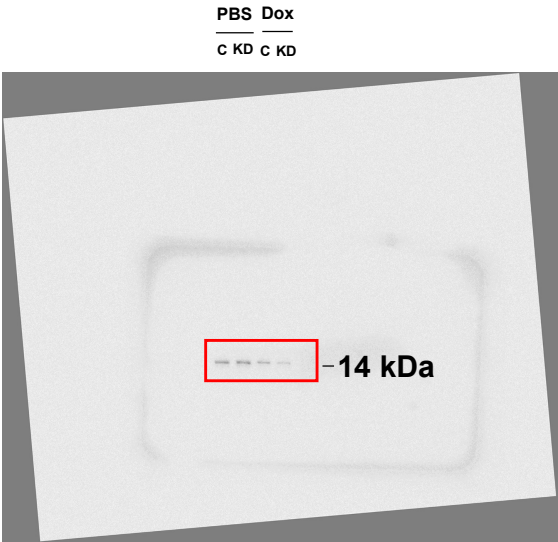
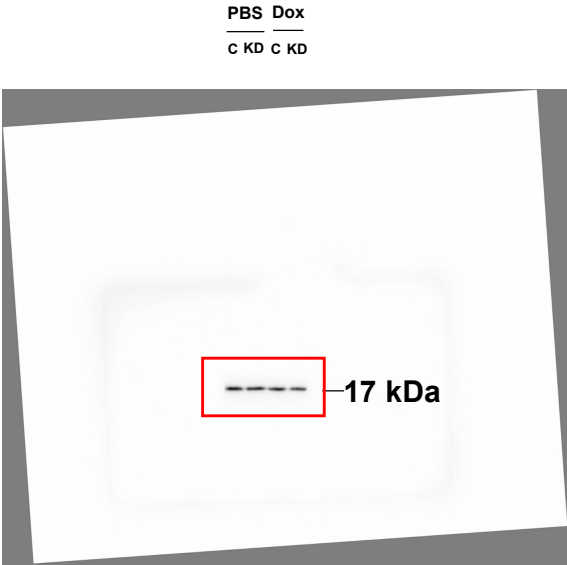
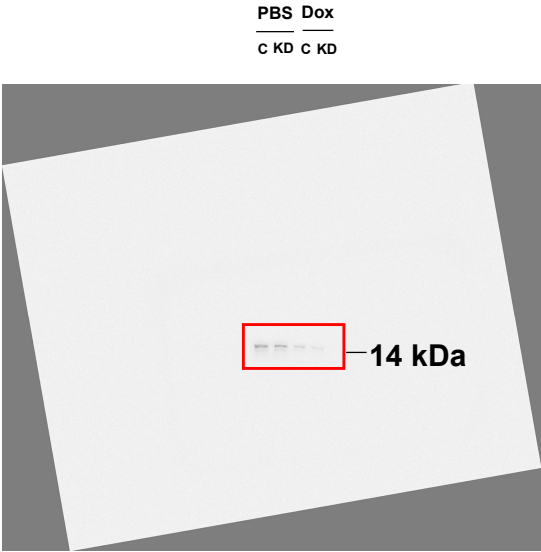
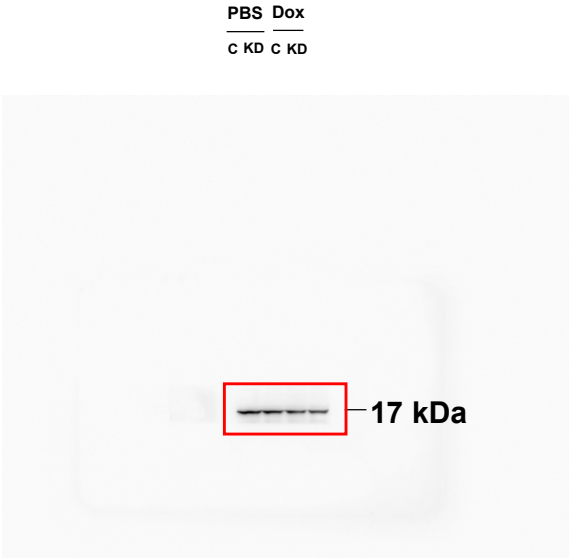


Figure 5r

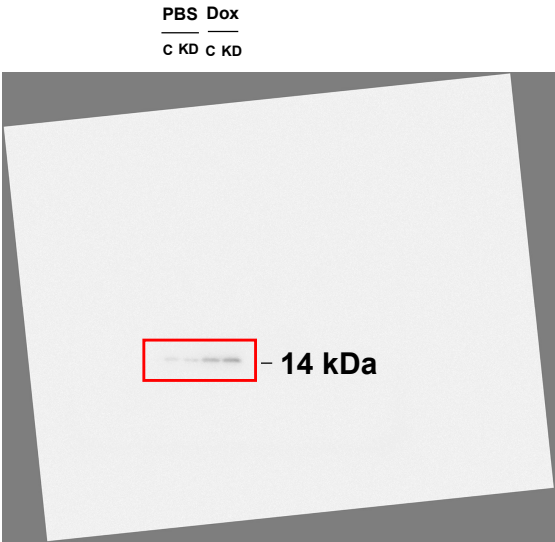
Mito-Cyt C (14 kDa)



COX IV (17 kDa)



Cyto-Cyt C (14 kDa)



Tubulin (55 kDa)

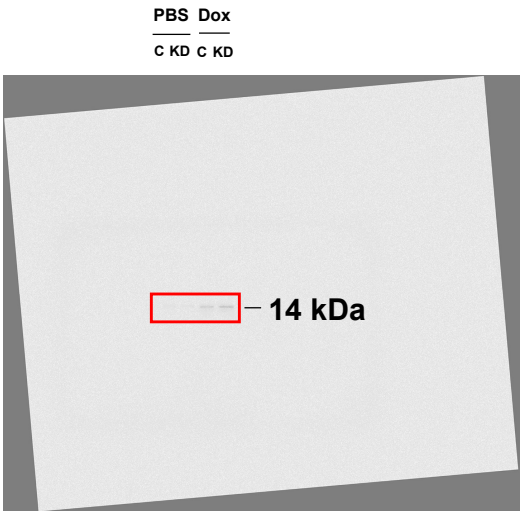
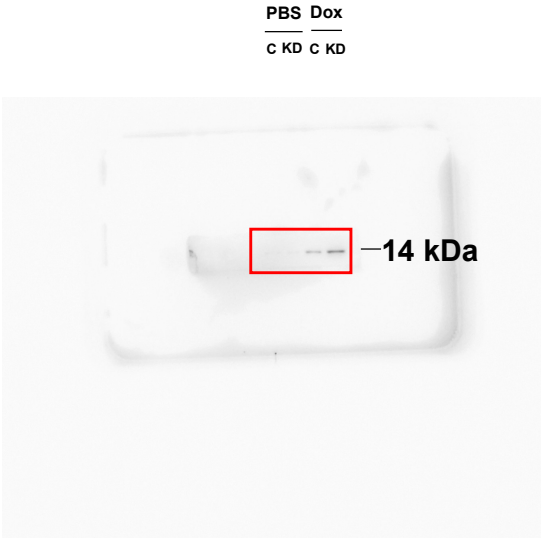
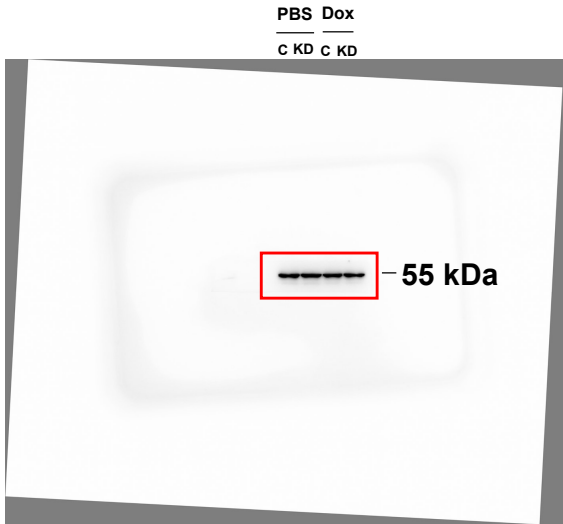
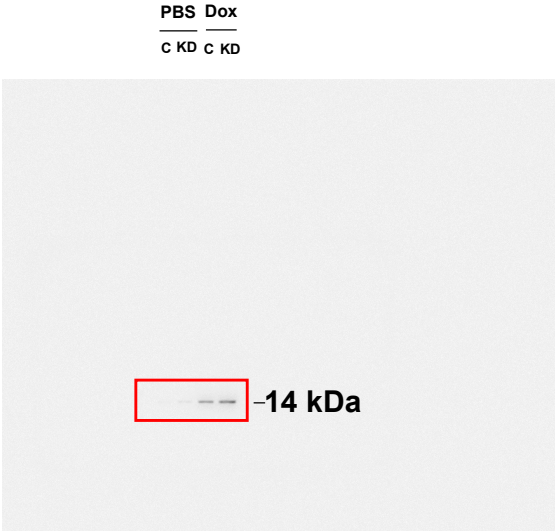
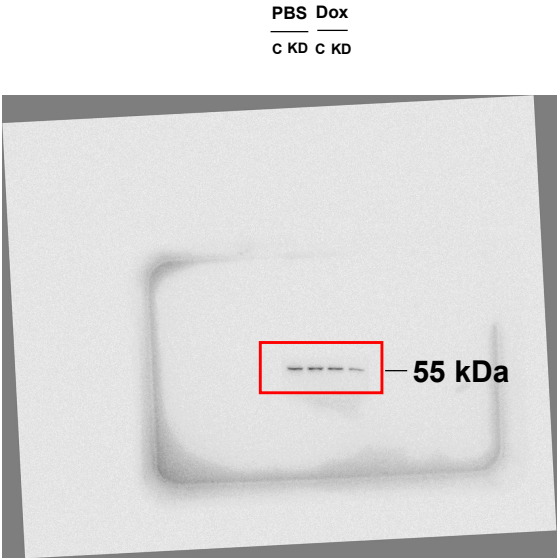


Figure 5r

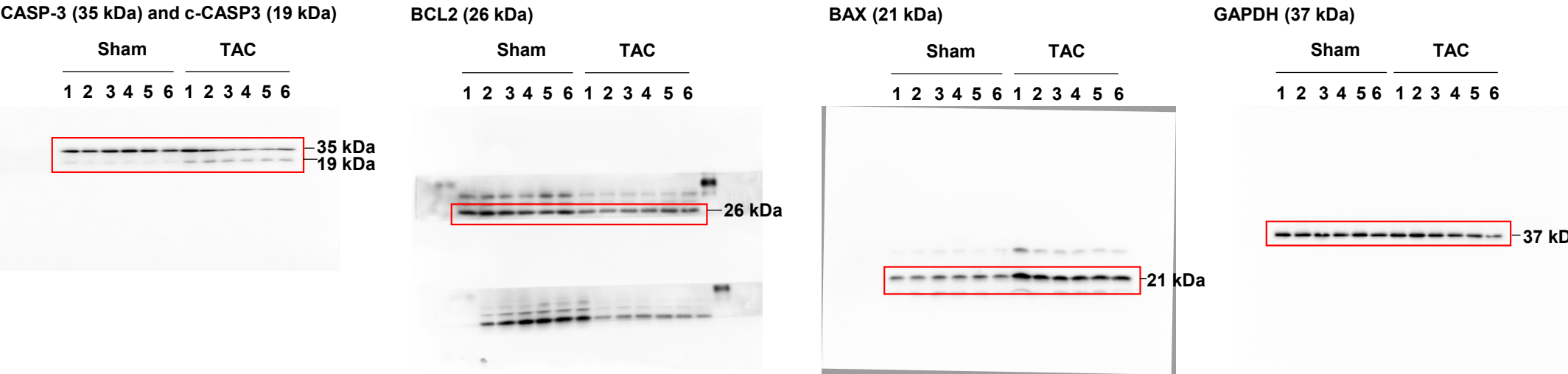
Cyto-Cyt C (14 kDa)



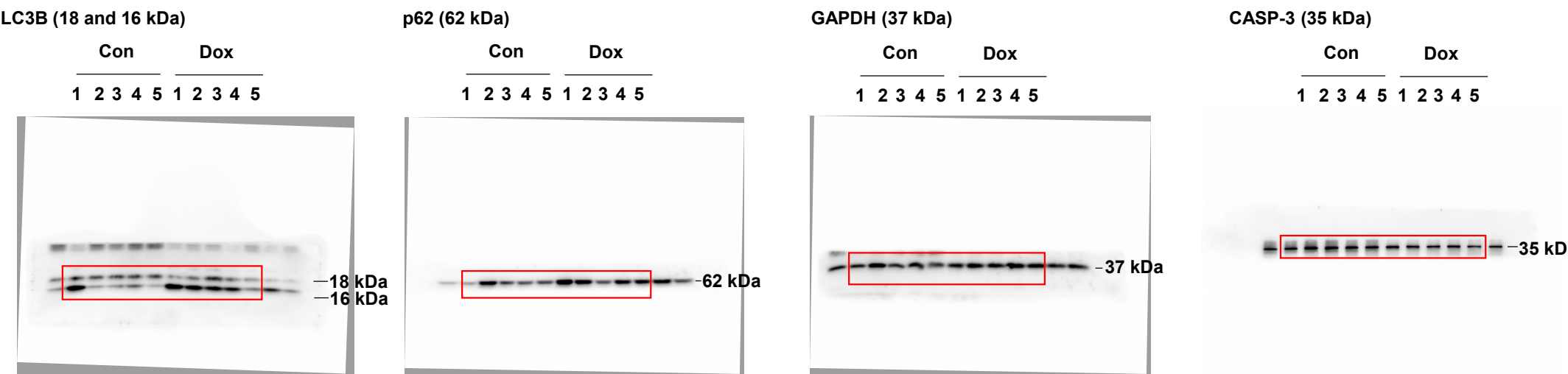
Tubulin (55 kDa)



Supplementary Figure 1a

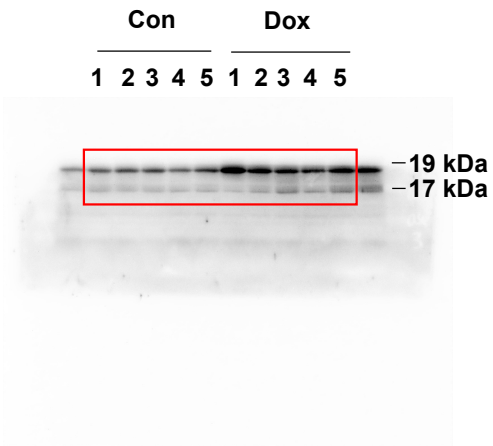


Supplementary Figure 1m

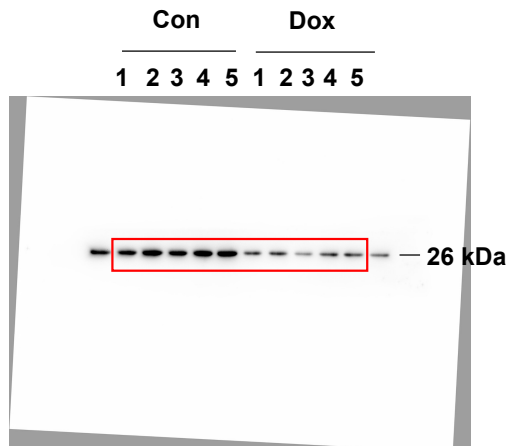


Supplementary Figure 1r

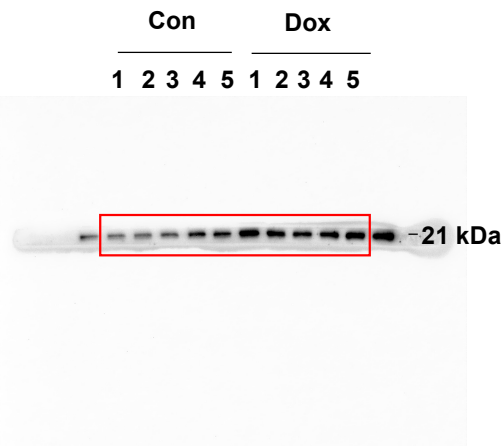
c-CASP-3 (19 kDa)



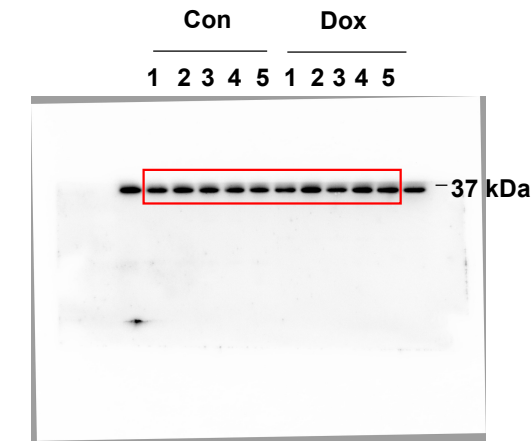
BCL2 (26 kDa)



BAX (21 kDa)



GAPDH (37 kDa)

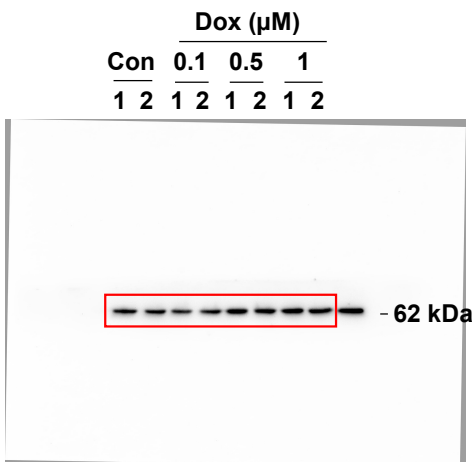


Supplementary Figure 2c

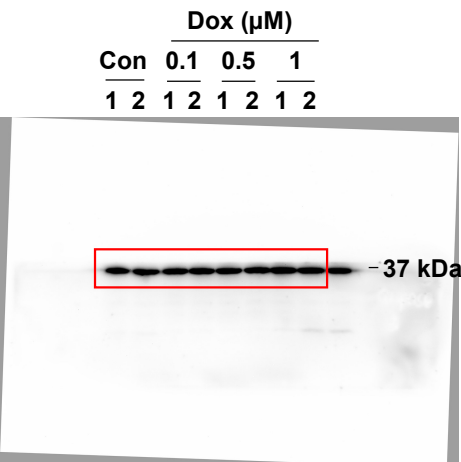
LC3B (18 and 16 kDa)



p62 (62 kDa)

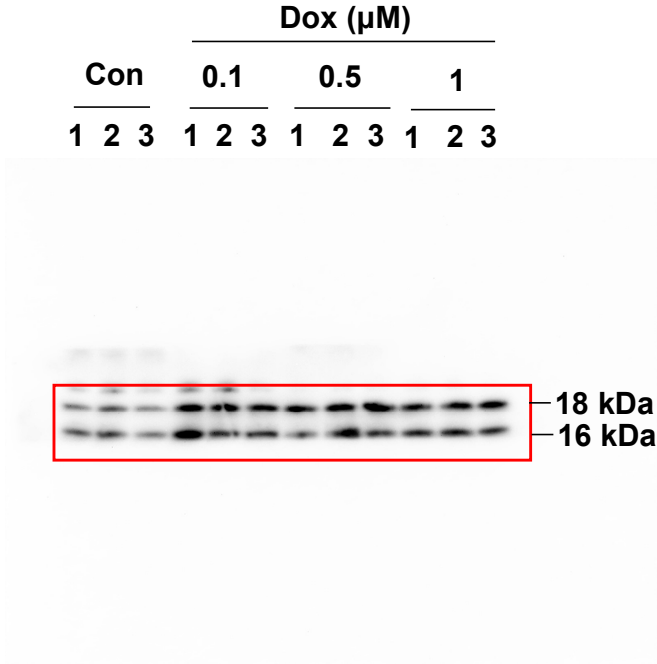


GAPDH (37 kDa)

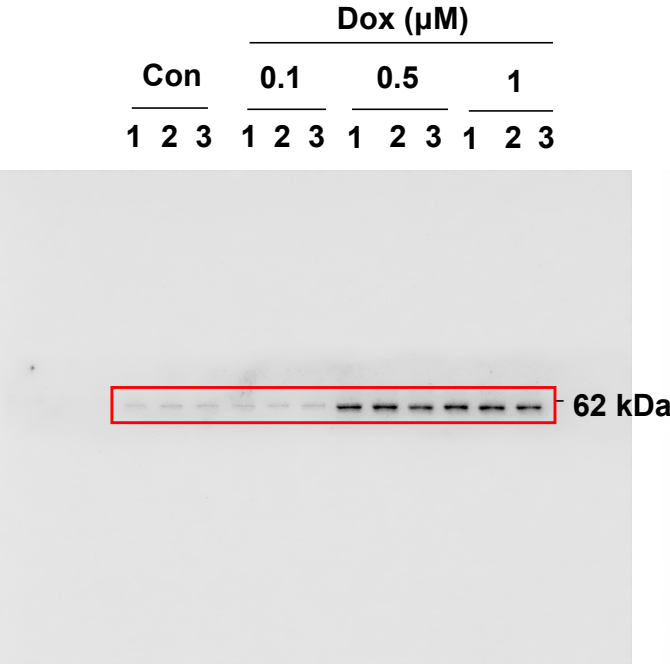


Supplementary Figure 2c

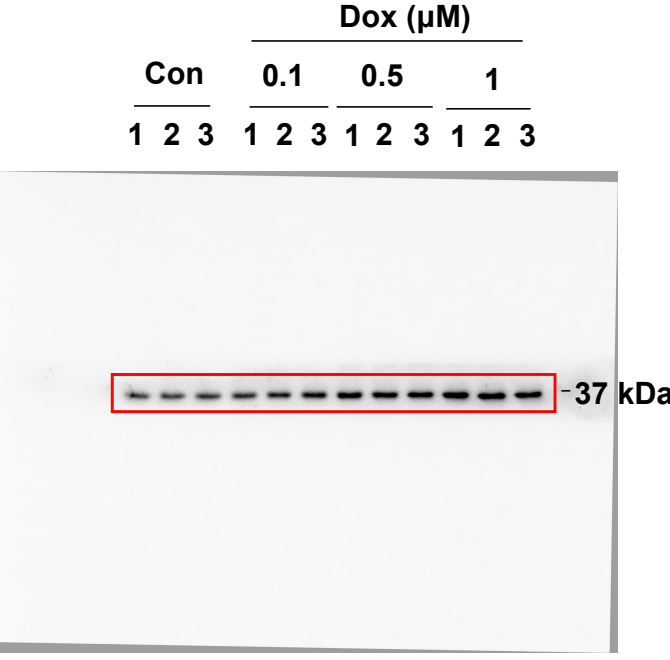
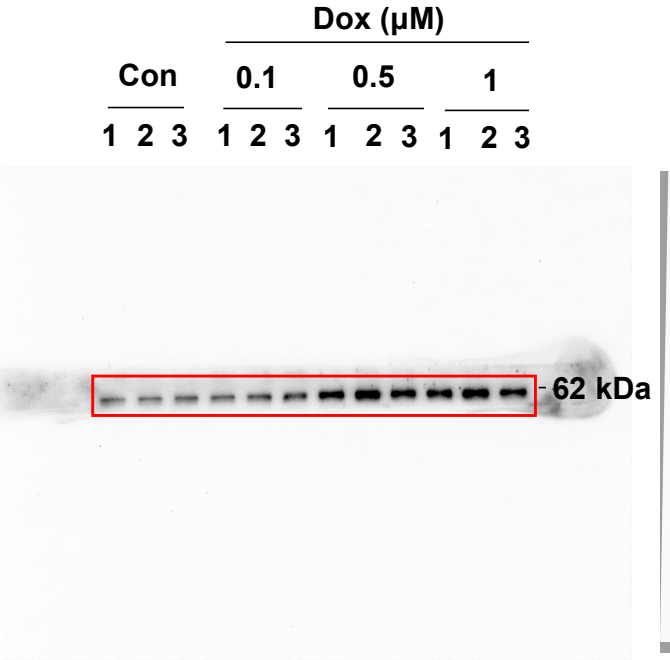
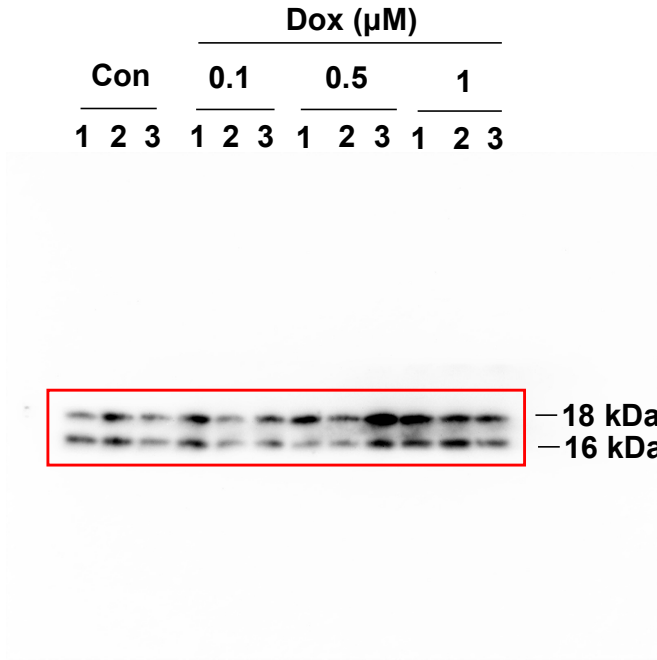
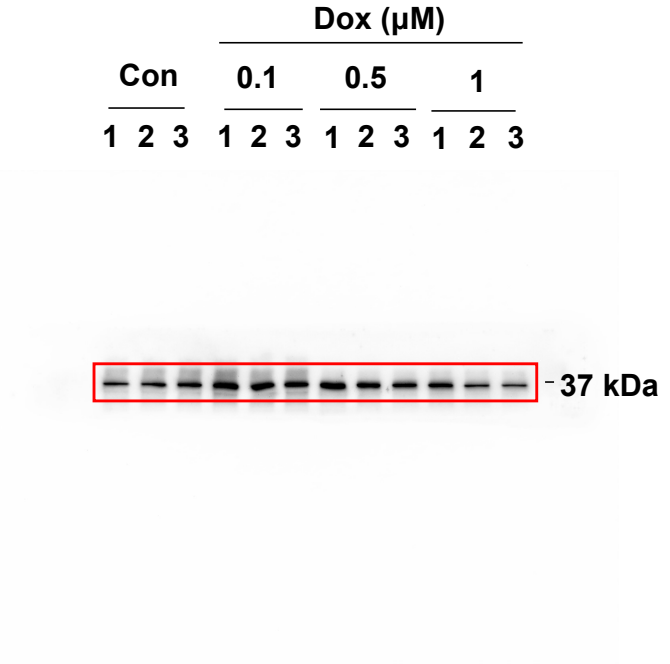
LC3B (18 and 16 kDa)



p62 (62 kDa)

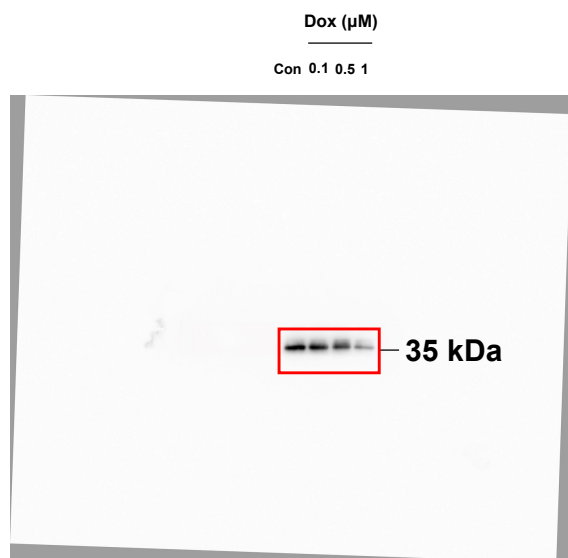


GAPDH (37 kDa)

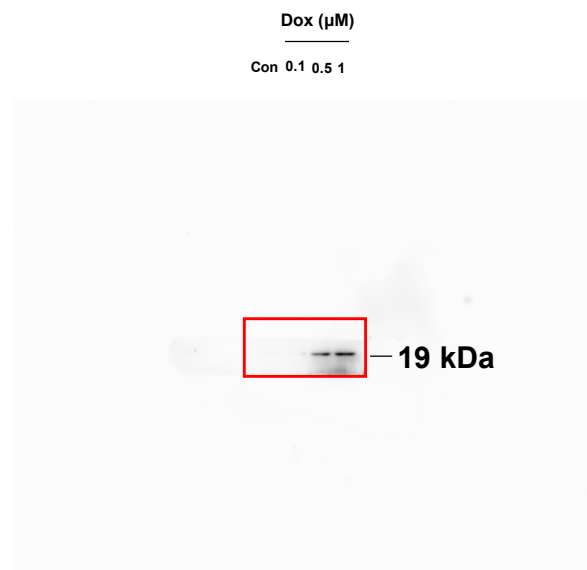


Supplementary Figure 2h

CASP-3 (35 kDa)



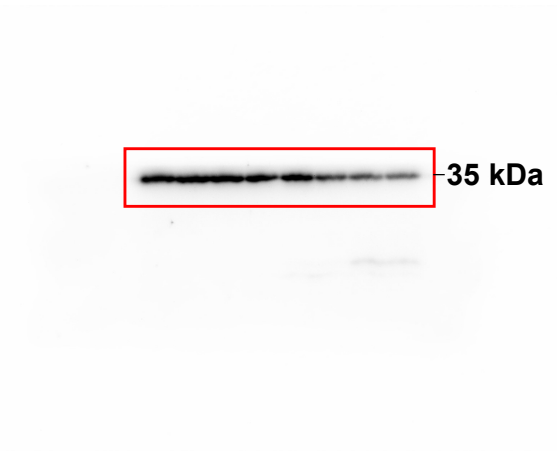
C-CASP-3 (19 kDa)



Supplementary Figure 2h

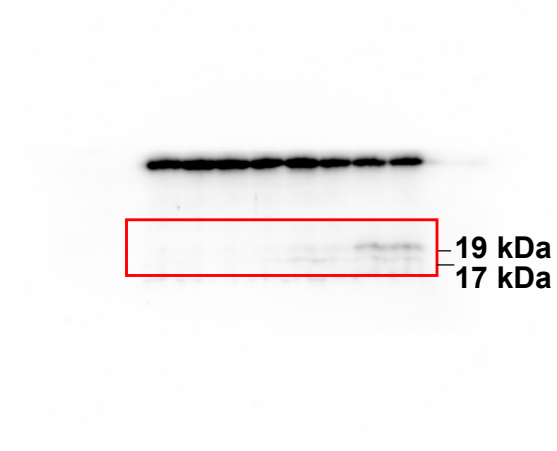
CASP-3 (35 kDa)

		Dox (μM)					
Con		0.1		0.5		1	
1	2	1	2	1	2	1	2



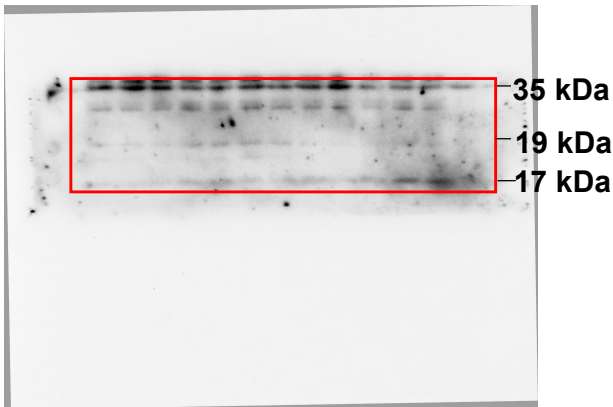
C-CASP-3 (19 kDa, 17kDa)

		Dox (μM)					
Con		0.1		0.5		1	
1	2	1	2	1	2	1	2



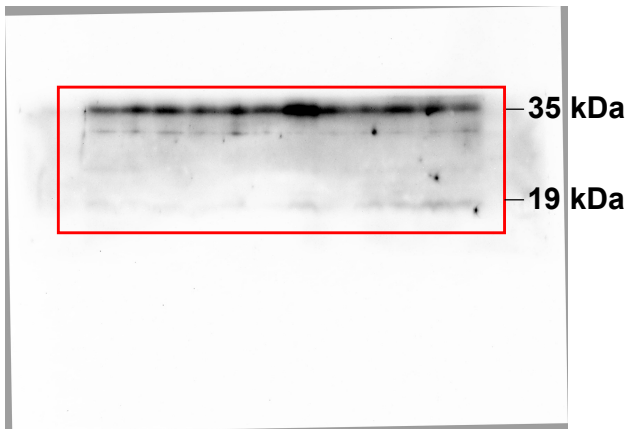
CASP-3 (35 kDa) and C-CASP-3 (19 and 17 kDa)

			Dox (μM)								
Con			0.1			0.5			1		
1	2	3	1	2	3	1	2	3	1	2	3



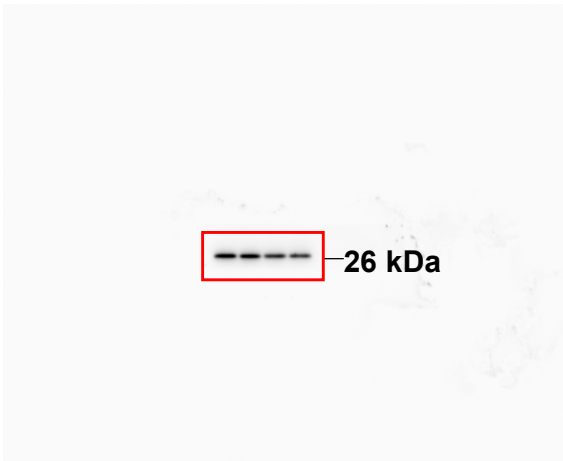
CASP-3 (35 kDa) and C-CASP-3 (19 and 17 kDa)

			Dox (μM)								
Con			0.1			0.5			1		
1	2	3	1	2	3	1	2	3	1	2	3



BCL2 (26 kDa)

		Dox (μM)			
Con		0.1	0.5	1	



BAX (21 kDa)

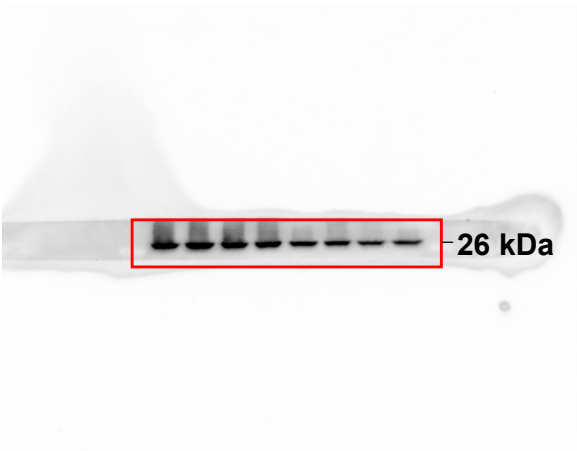
		Dox (μM)			
Con		0.1	0.5	1	



Supplementary Figure 2h

BCL2 (26 kDa)

		Dox (μM)					
Con		0.1		0.5		1	
1	2	1	2	1	2	1	2

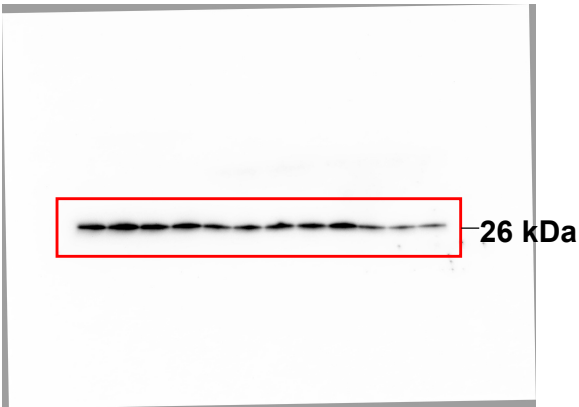


BAX (21 kDa)

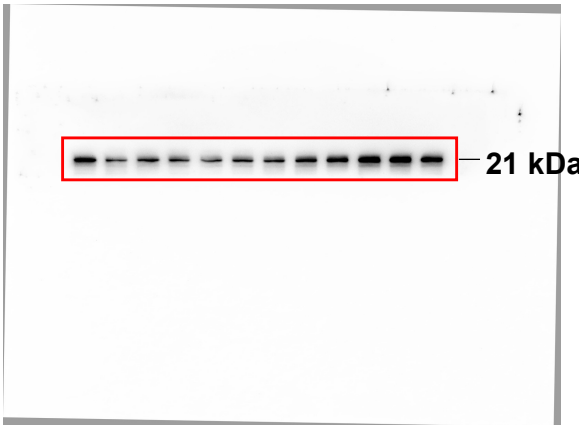
		Dox (μM)					
Con		0.1		0.5		1	
1	2	1	2	1	2	1	2



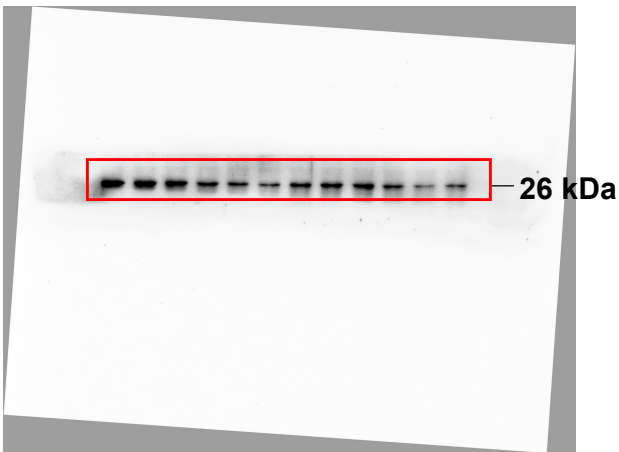
			Dox (μM)								
Con			0.1			0.5			1		
1	2	3	1	2	3	1	2	3	1	2	3



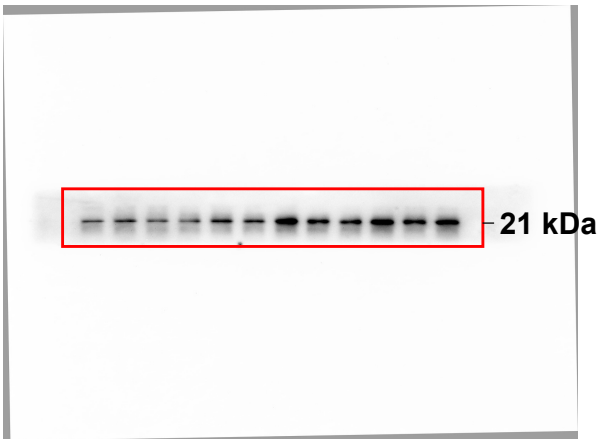
			Dox (μM)								
Con			0.1			0.5			1		
1	2	3	1	2	3	1	2	3	1	2	3



			Dox (μM)								
Con			0.1			0.5			1		
1	2	3	1	2	3	1	2	3	1	2	3

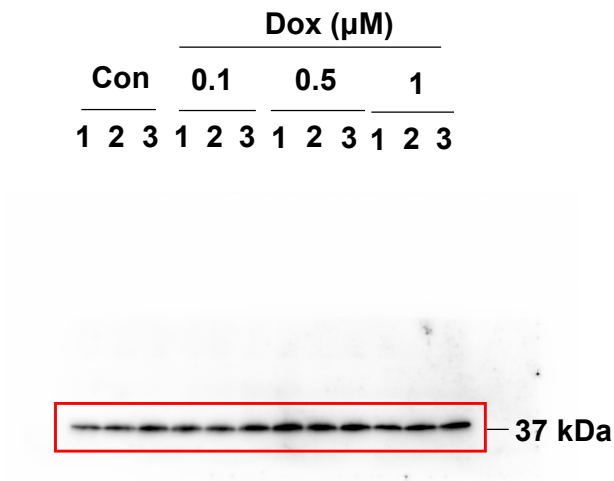
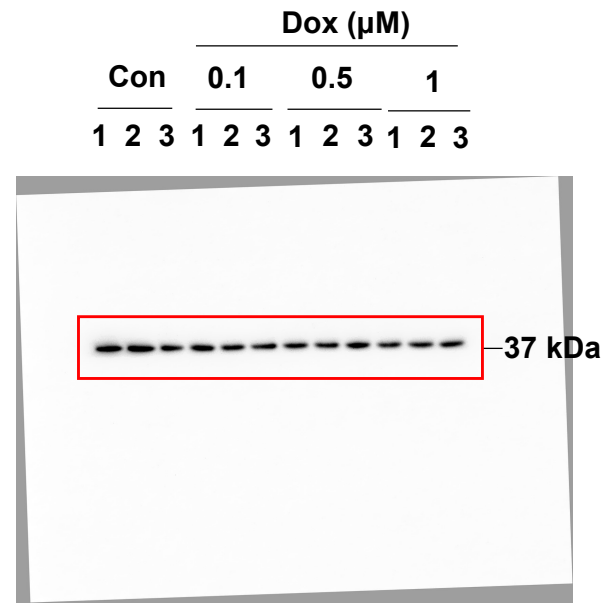
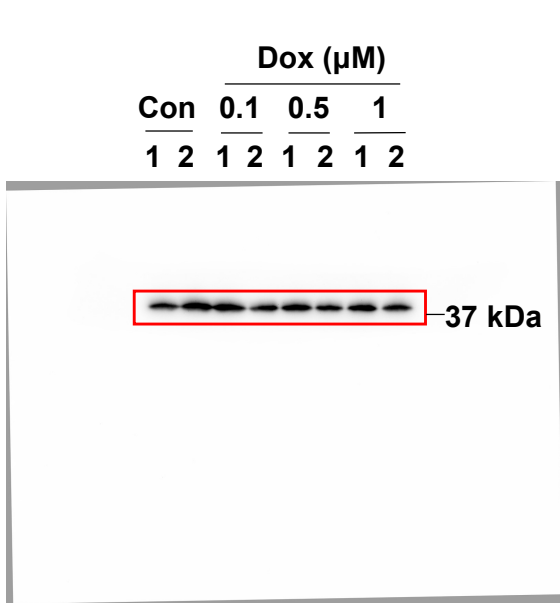
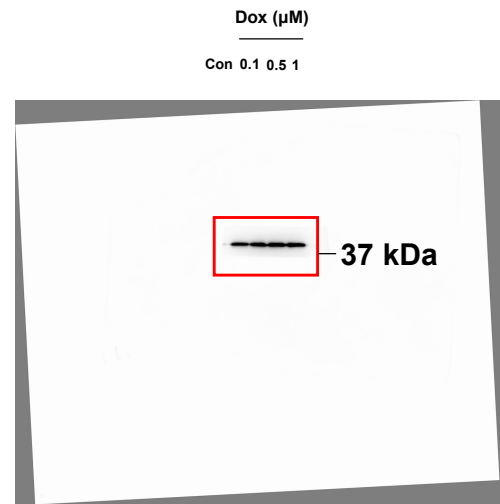
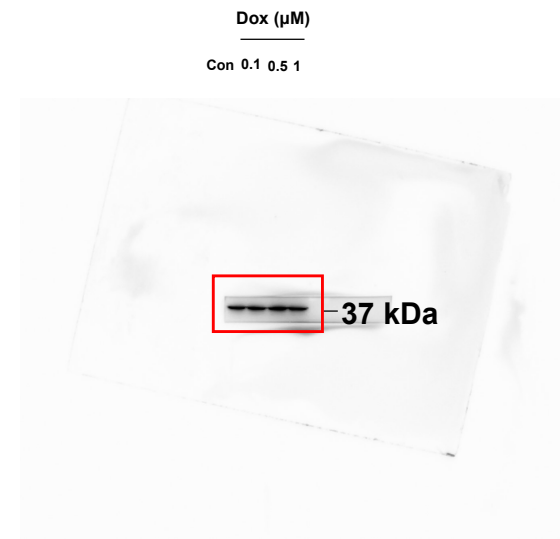


			Dox (μM)								
Con			0.1			0.5			1		
1	2	3	1	2	3	1	2	3	1	2	3



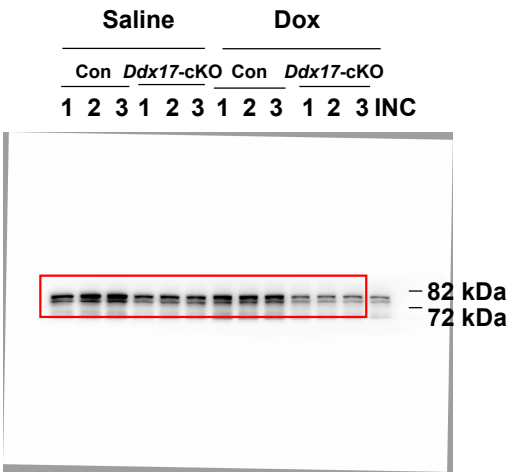
Supplementary Figure 2h

GAPDH (37 kDa)

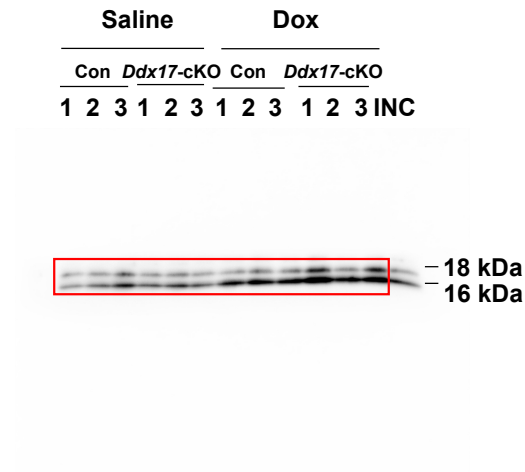


Supplementary Figure 5a

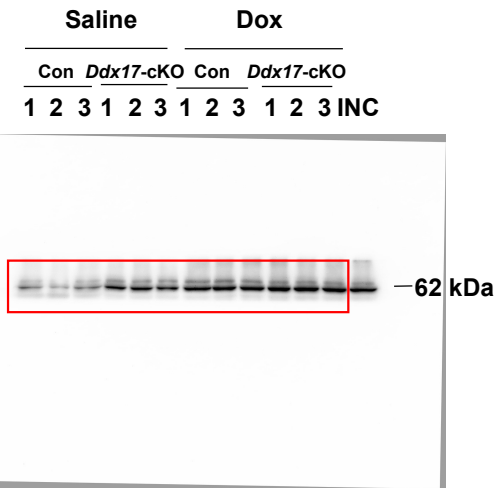
DDX17 (82 and 72 kDa)



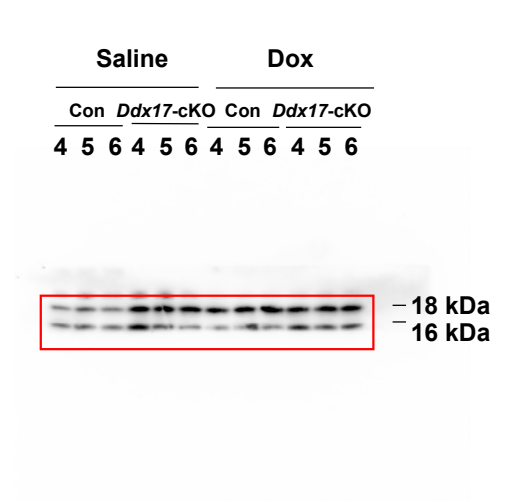
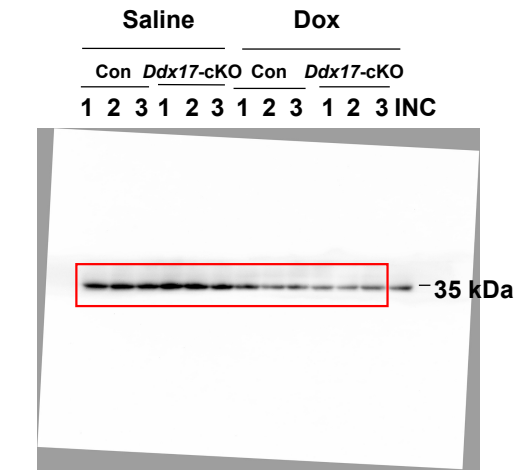
LC3B (18 and 16 kDa)



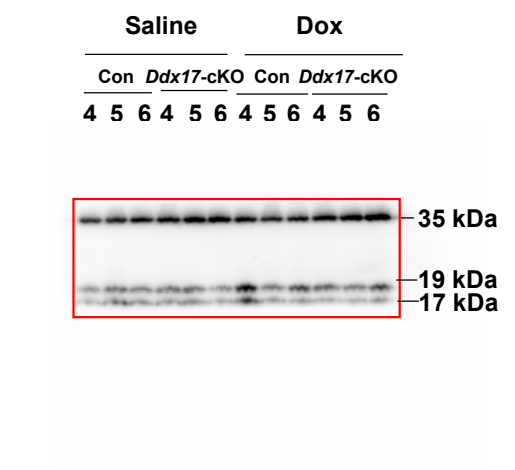
p62 (62 kDa)



CASP-3 (35 kDa)

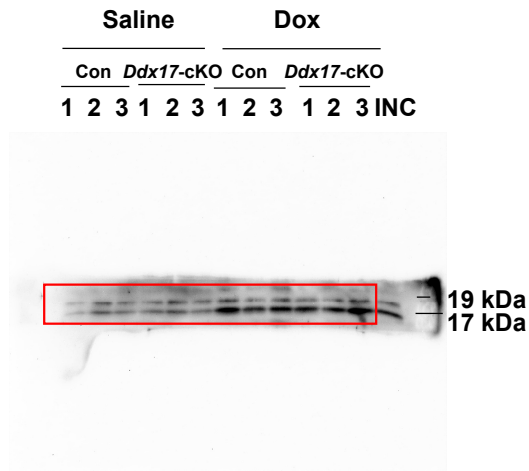


CASP-3 (35 kDa) and c-CASP-3 (19 and 17 kDa)

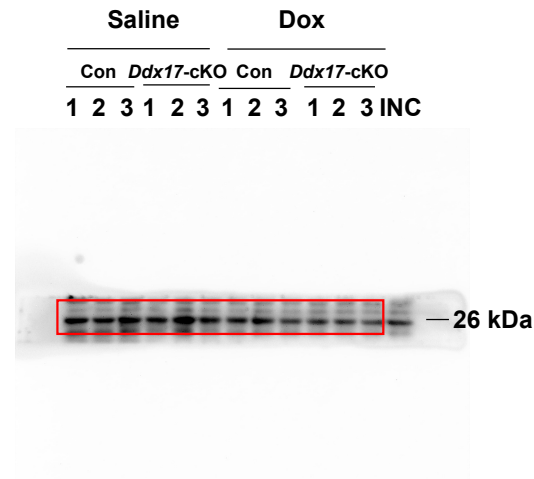


Supplementary Figure 5a

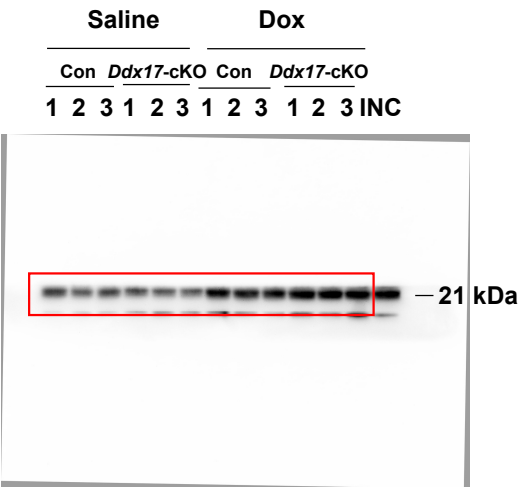
c-CASP-3 (19 and 17 kDa)



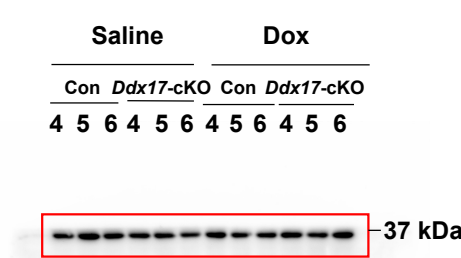
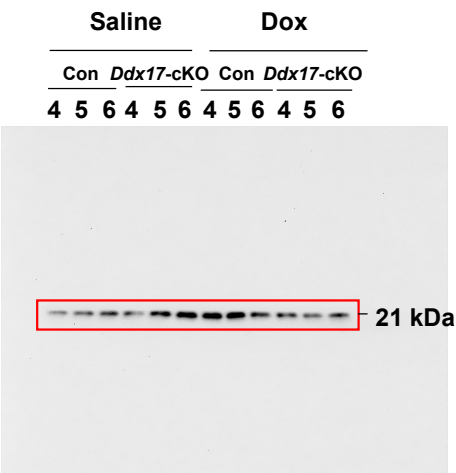
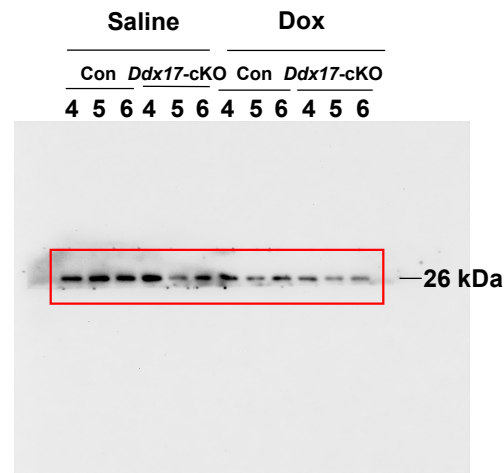
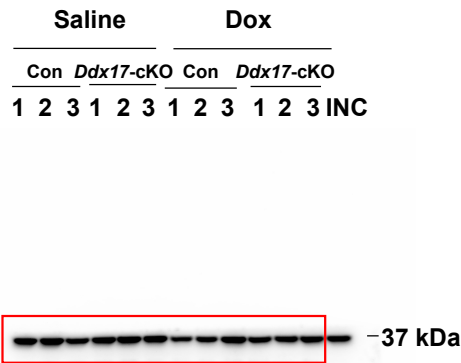
BCL2 (26 kDa)



BAX (21 kDa)

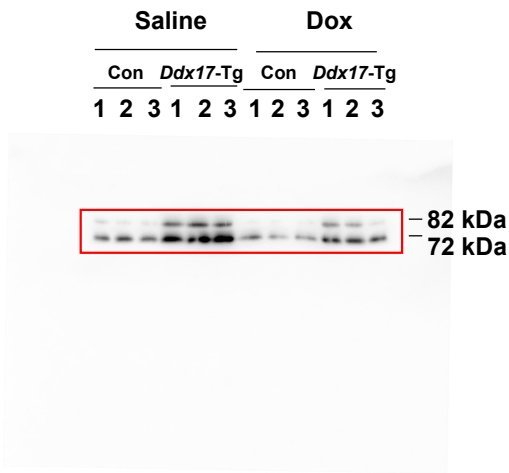


GAPDH (37 kDa)

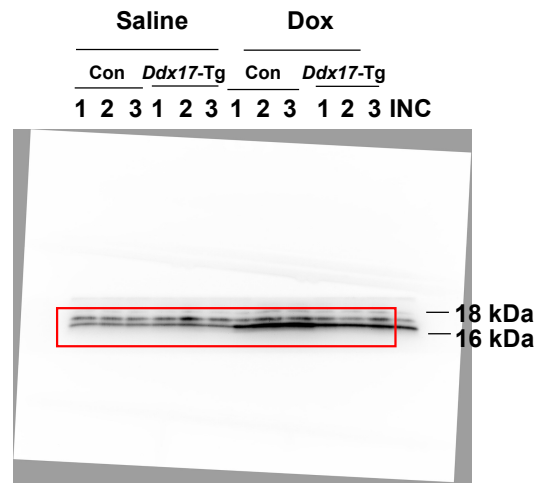


Supplementary Figure 5g

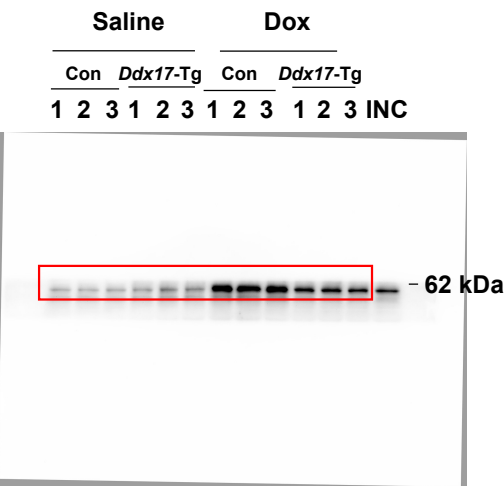
DDX17 (82 and 72 kDa)



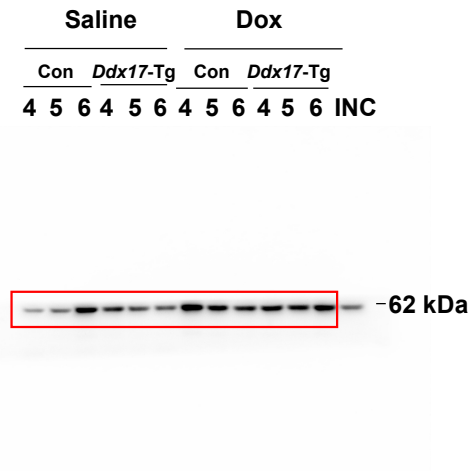
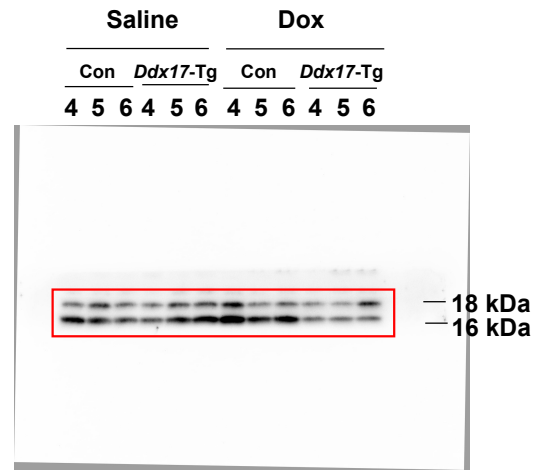
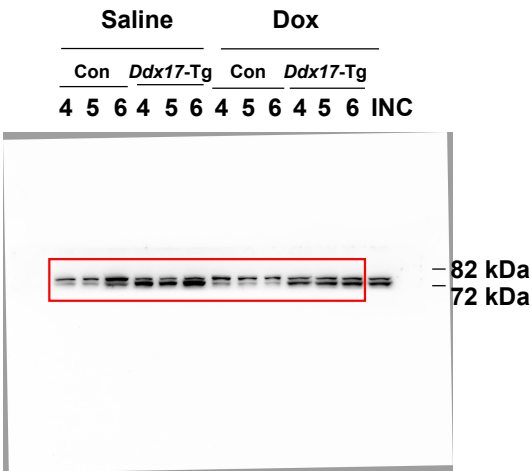
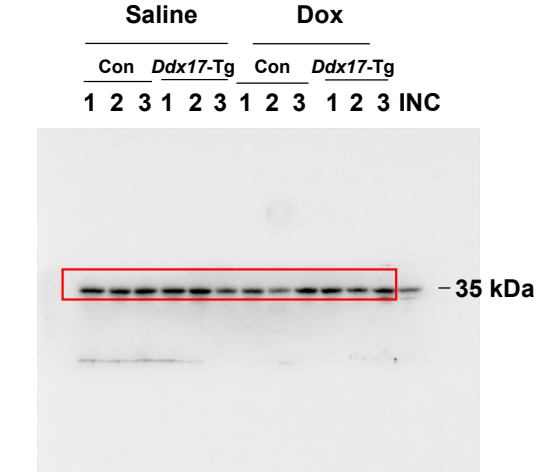
LC3B (18 and 16 kDa)



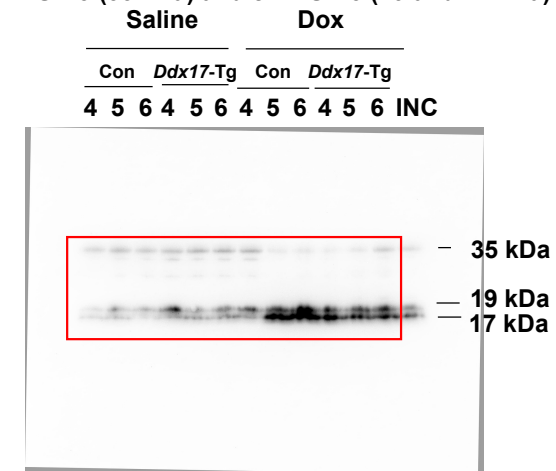
p62 (62 kDa)



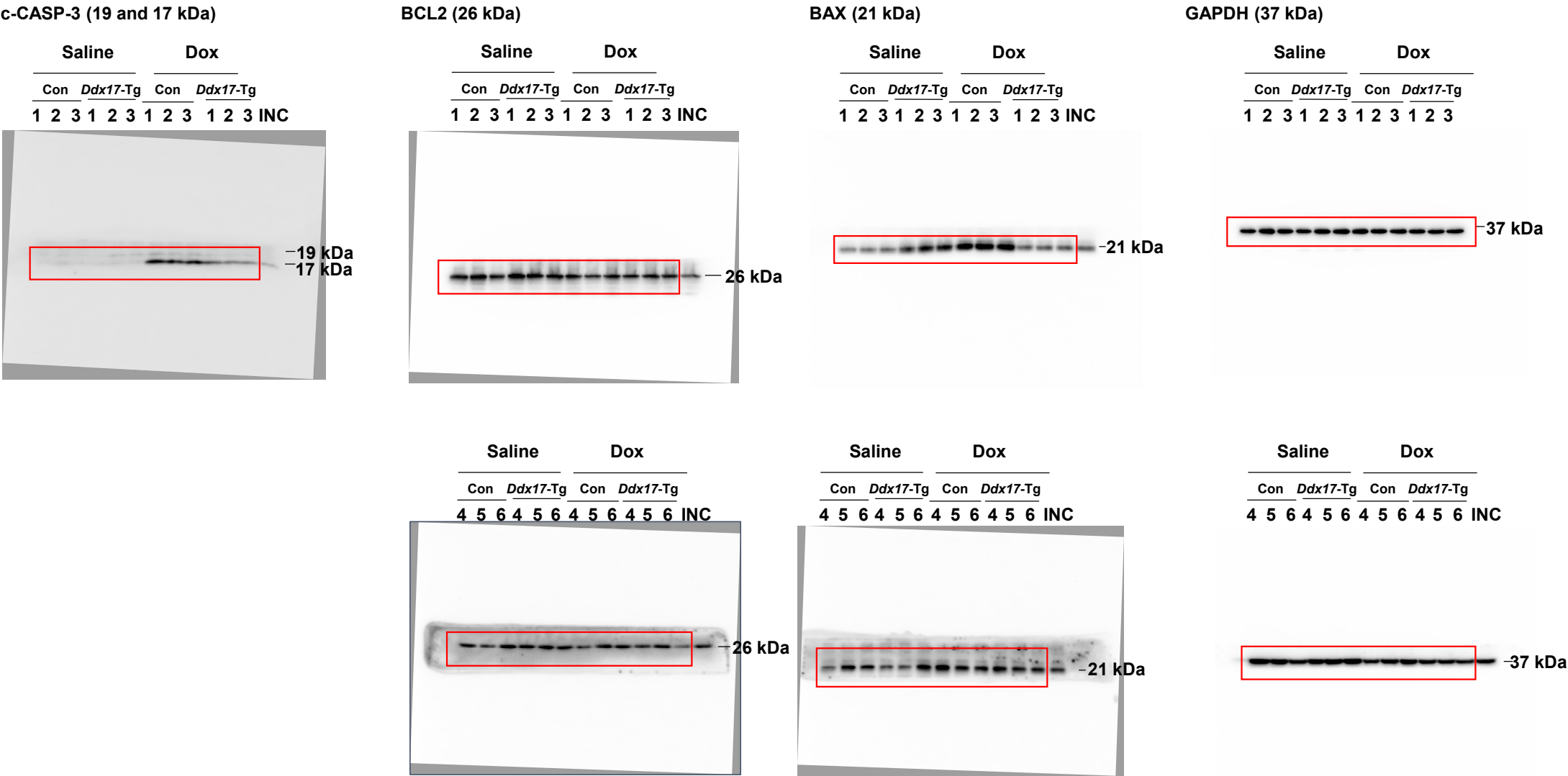
CASP-3 (35 kDa)



CASP-3 (35 kDa) and c-CASP-3 (19 and 17 kDa)



Supplementary Figure 5g

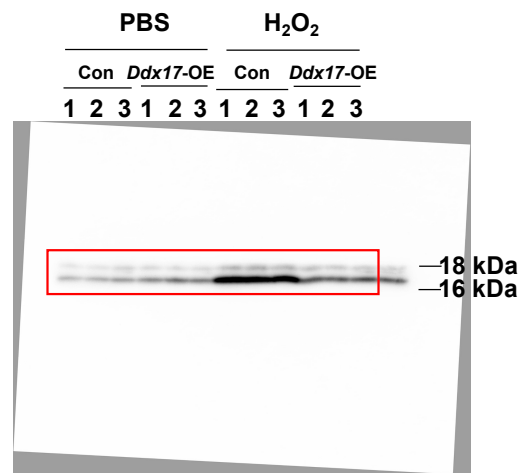


Supplementary Figure 6a

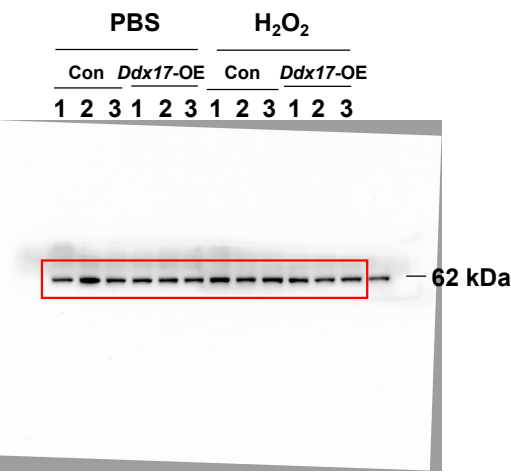
DDX17 (82 and 72 kDa)



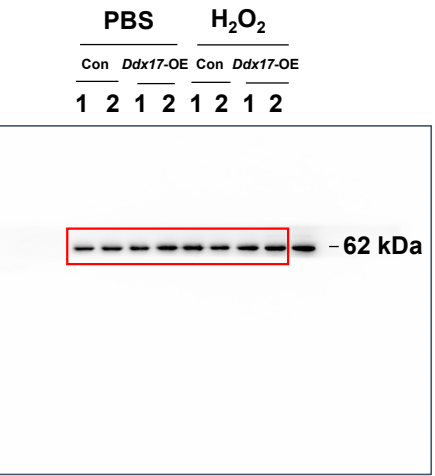
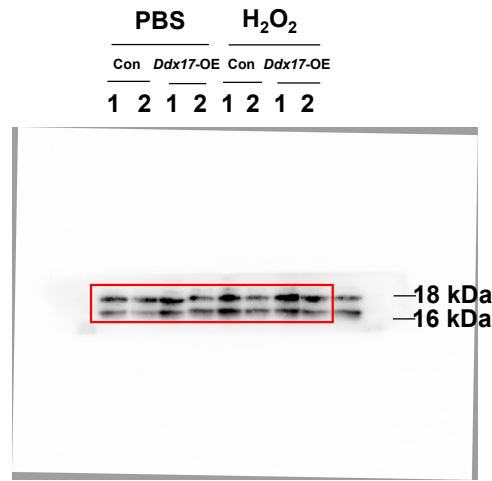
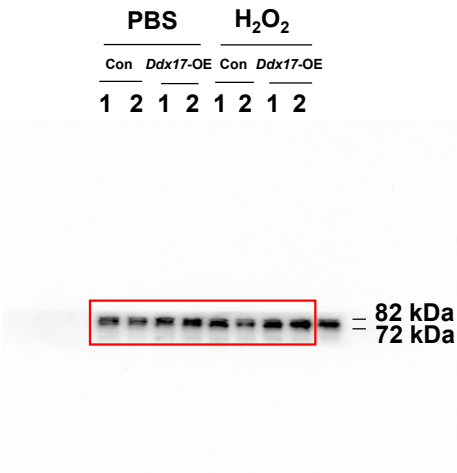
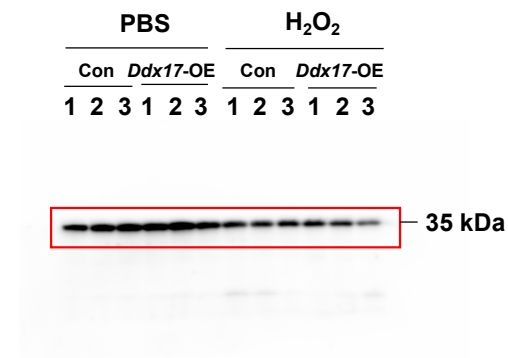
LC3B (18 and 16 kDa)



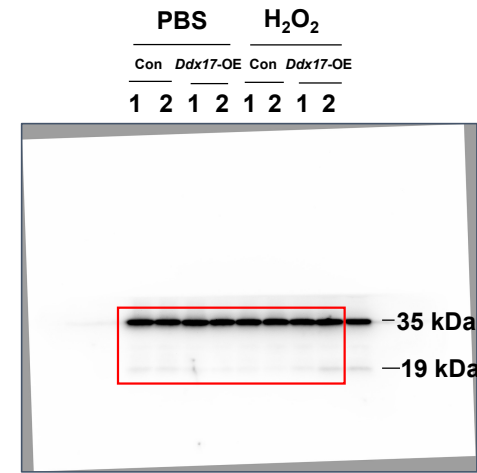
p62 (62 kDa)



CASP-3 (35 kDa)

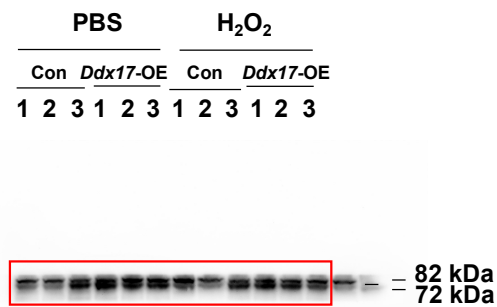


CASP-3 (35 kDa) and c-CASP (19 and 17 kDa)

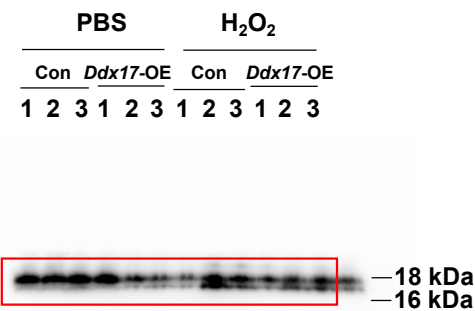


Supplementary Figure 6a

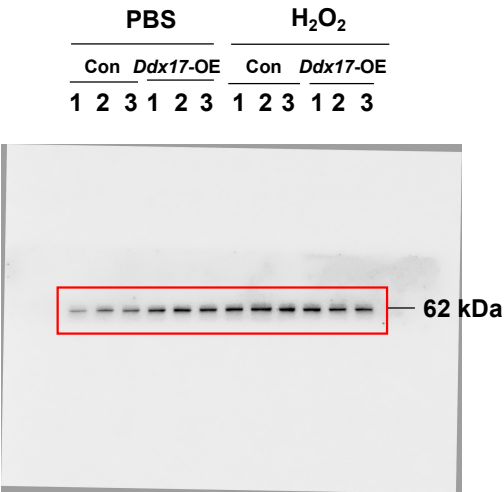
DDX17 (82 and 72 kDa)



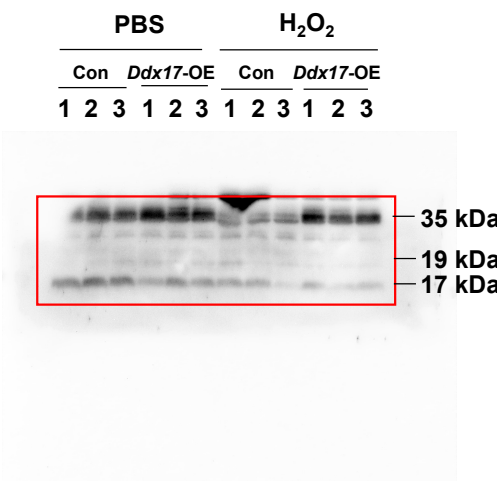
LC3B (18 and 16 kDa)



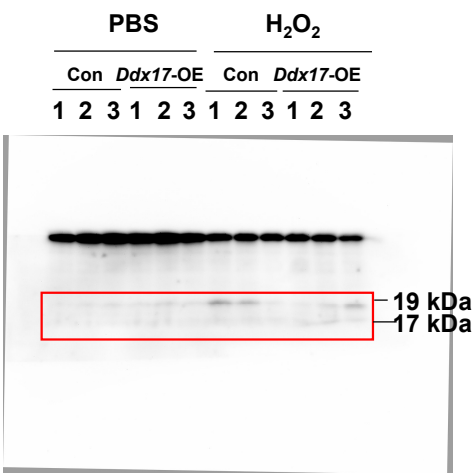
p62 (62 kDa)



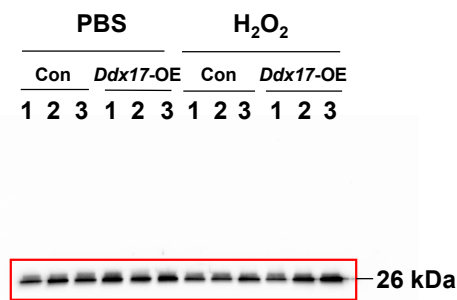
CASP-3 (35 kDa) and c-CASP (19 and 17 kDa)



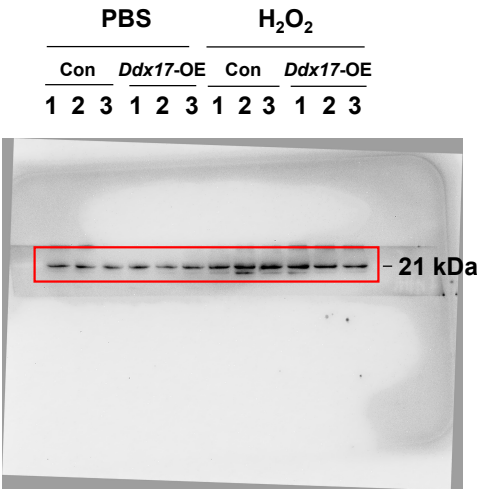
c-CASP-3 (19 and 17 kDa)



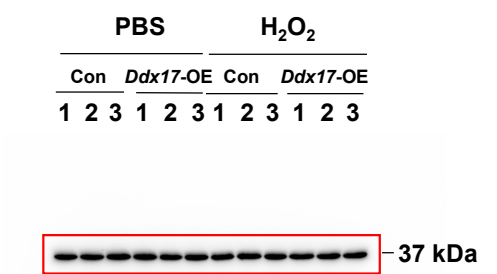
BCL2 (26 kDa)



BAX (21 kDa)



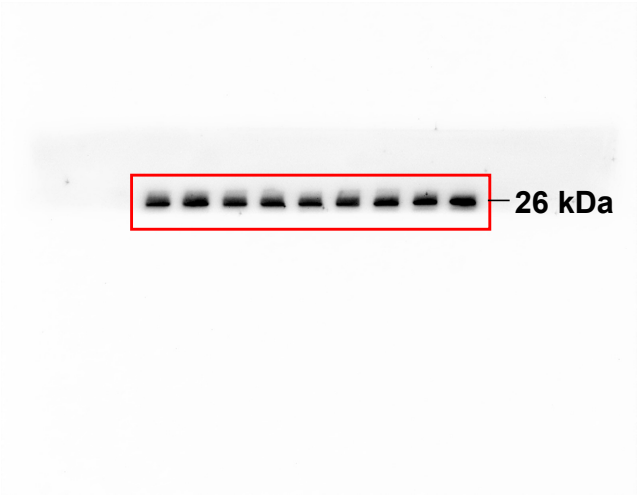
GAPDH (37 kDa)



Supplementary Figure 6a

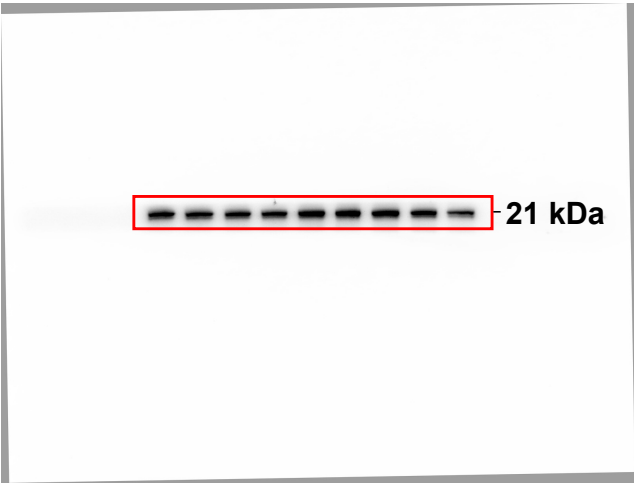
BCL2 (26 kDa)

PBS				H ₂ O ₂				
Con		Ddx17-OE		Con		Ddx17-OE		
1	2	1	2	1	2	1	2	3



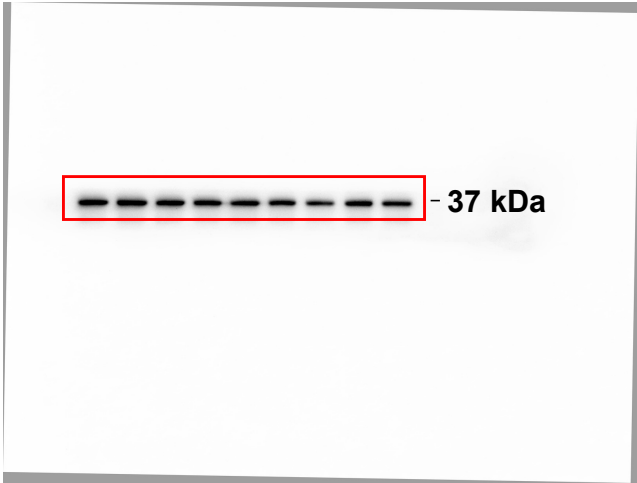
BAX (21 kDa)

PBS				H ₂ O ₂				
Con		Ddx17-OE		Con		Ddx17-OE		
1	2	1	2	1	2	1	2	3

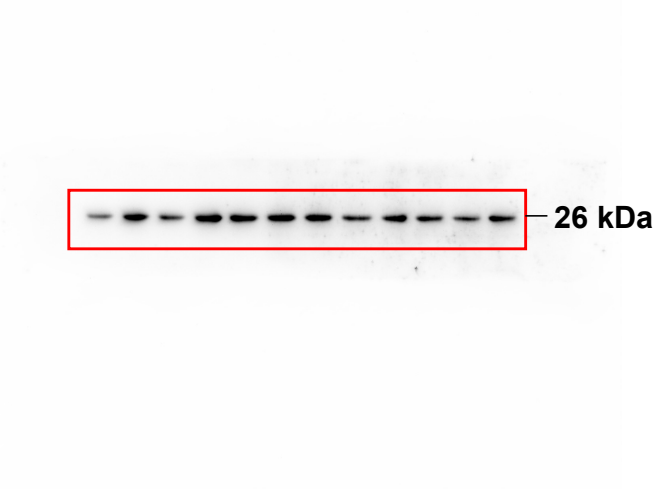


GAPDH (37 kDa)

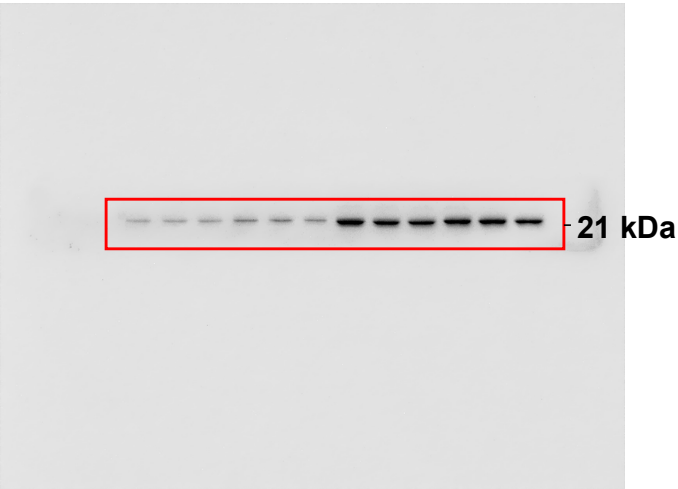
PBS				H ₂ O ₂				
Con		Ddx17-OE		Con		Ddx17-OE		
1	2	1	2	1	2	1	2	3



PBS			H ₂ O ₂								
Con			Ddx17-OE			Con			Ddx17-OE		
1	2	3	1	2	3	1	2	3	1	2	3



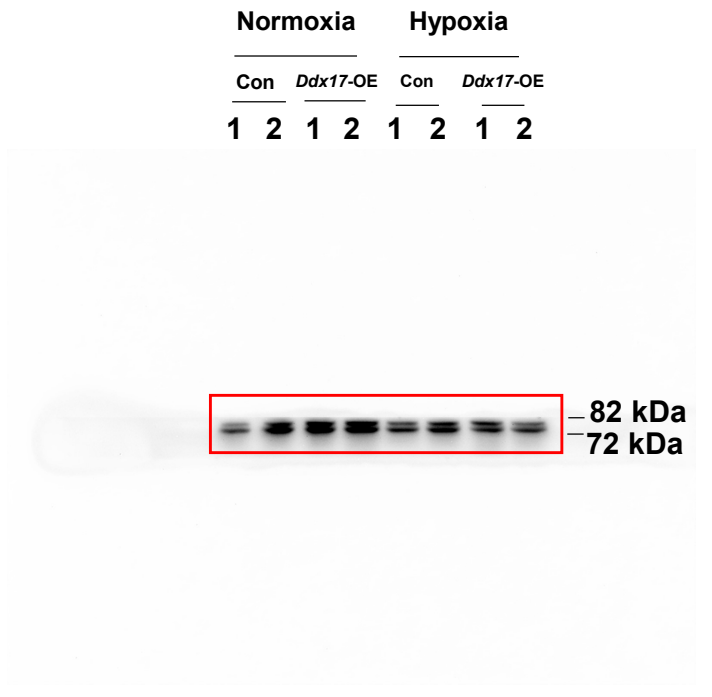
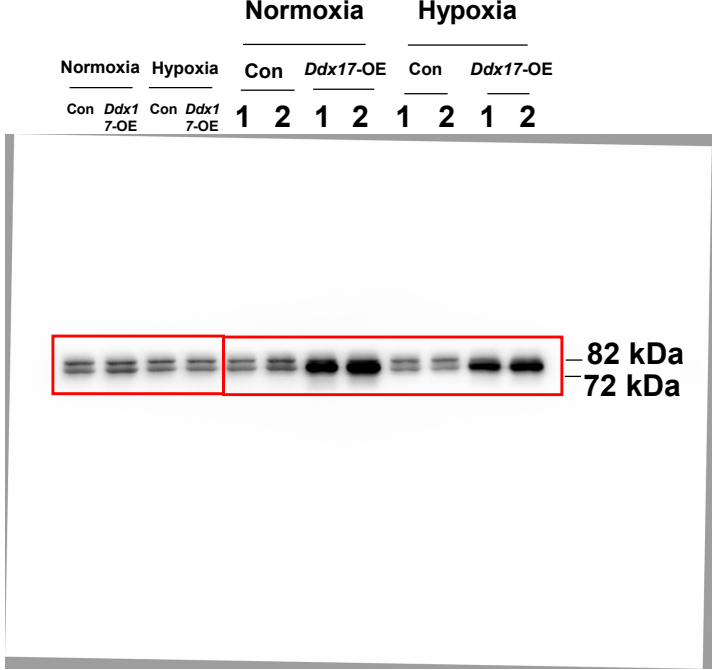
PBS			H ₂ O ₂								
Con			Ddx17-OE			Con			Ddx17-OE		
1	2	3	1	2	3	1	2	3	1	2	3



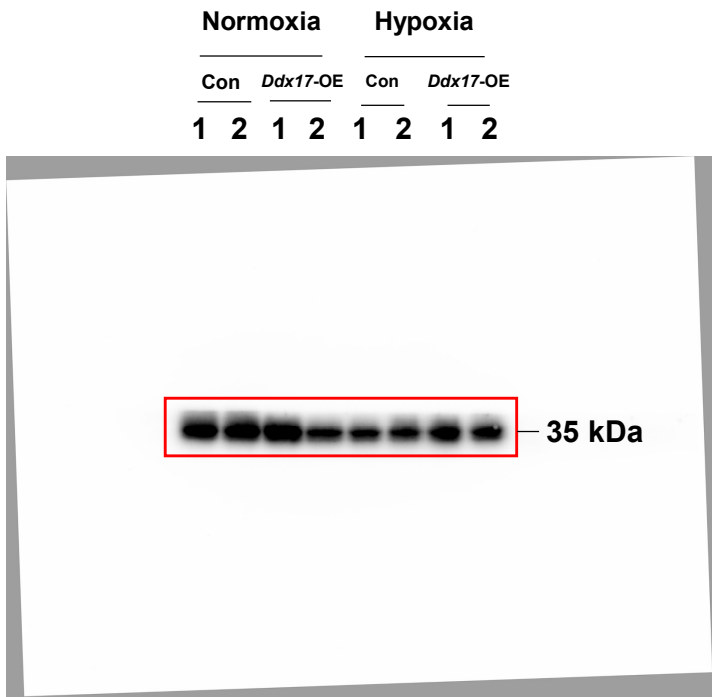
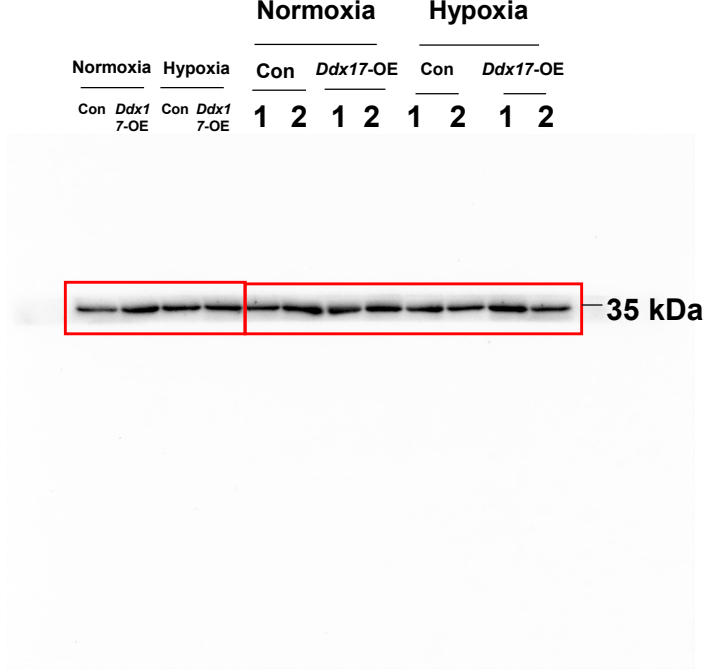
PBS			H ₂ O ₂								
Con			Ddx17-OE			Con			Ddx17-OE		
1	2	3	1	2	3	1	2	3	1	2	3



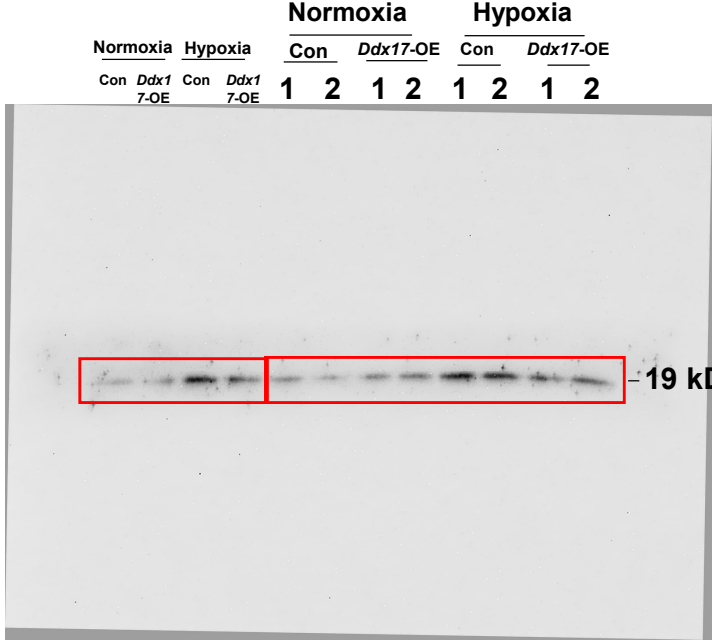
Supplementary Figure 6g
DDX17 (82 and 72 kDa)



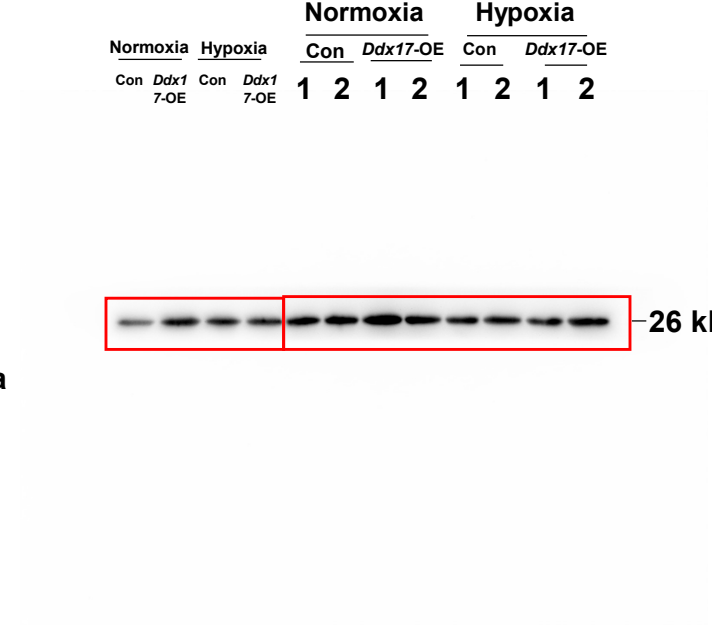
CASP-3 (35 kDa)



c-CASP-3 (19 and 17 kDa)

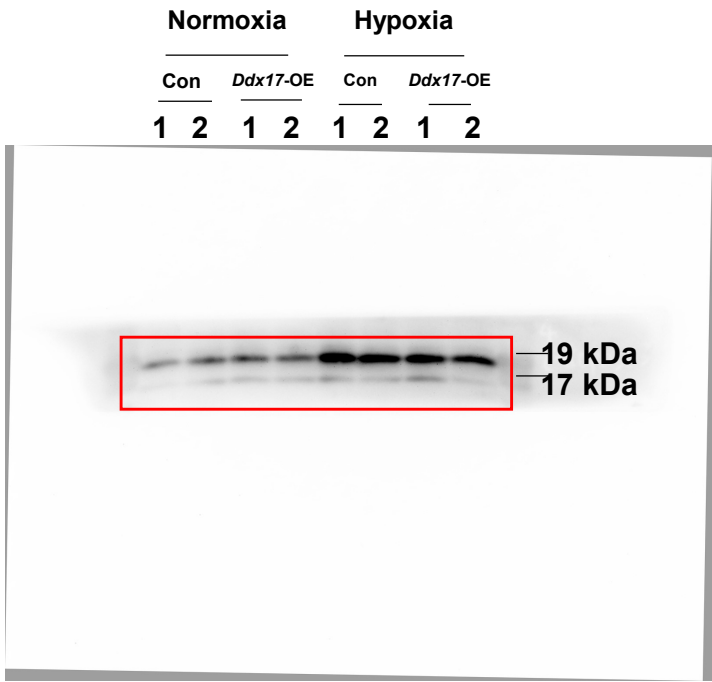


BCL2 (26 kDa)

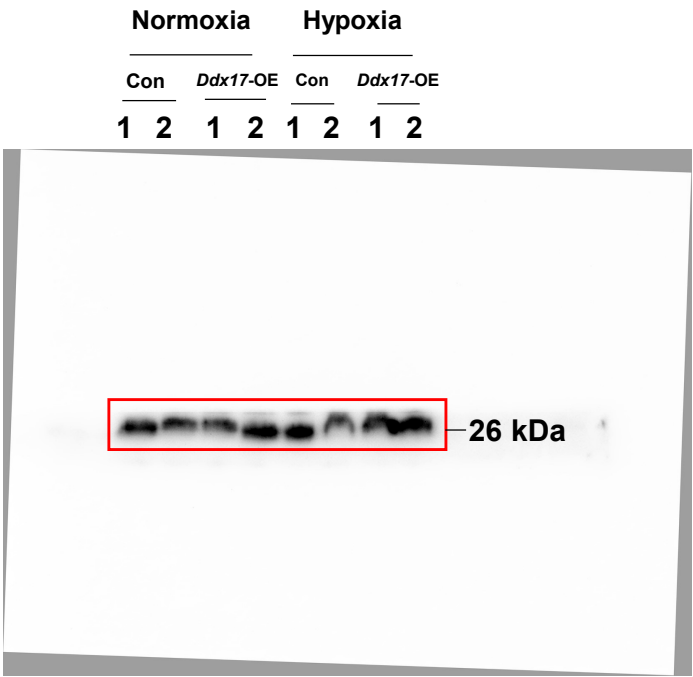


Supplementary Figure 6g

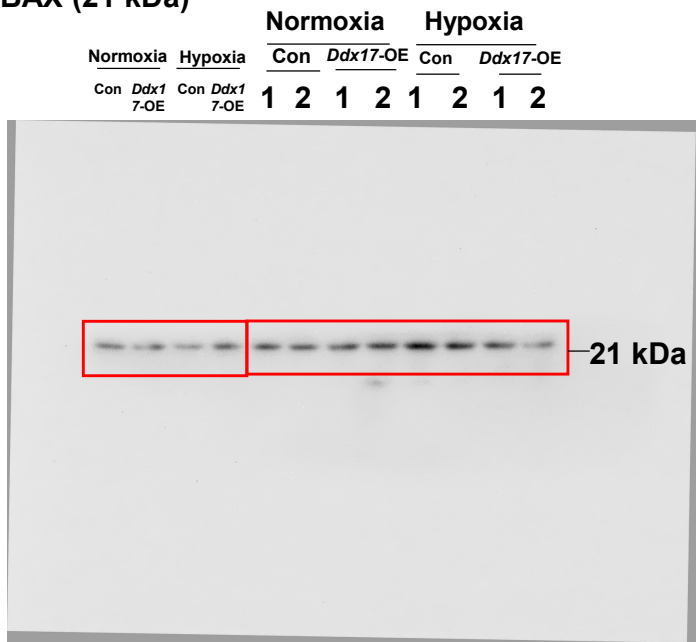
c-CASP-3 (19 and 17 kDa)



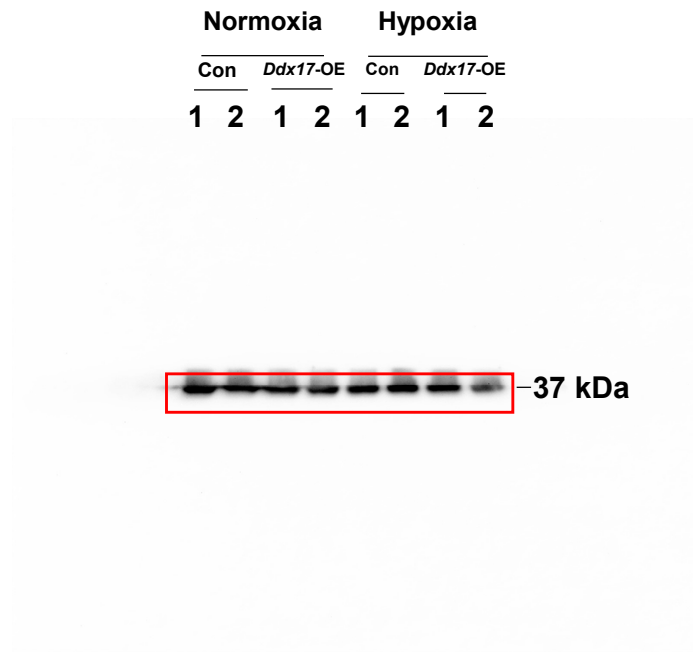
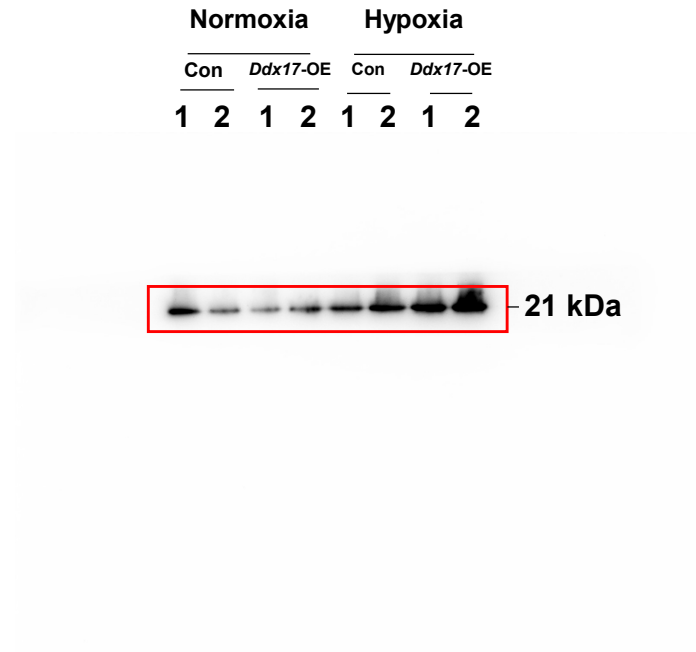
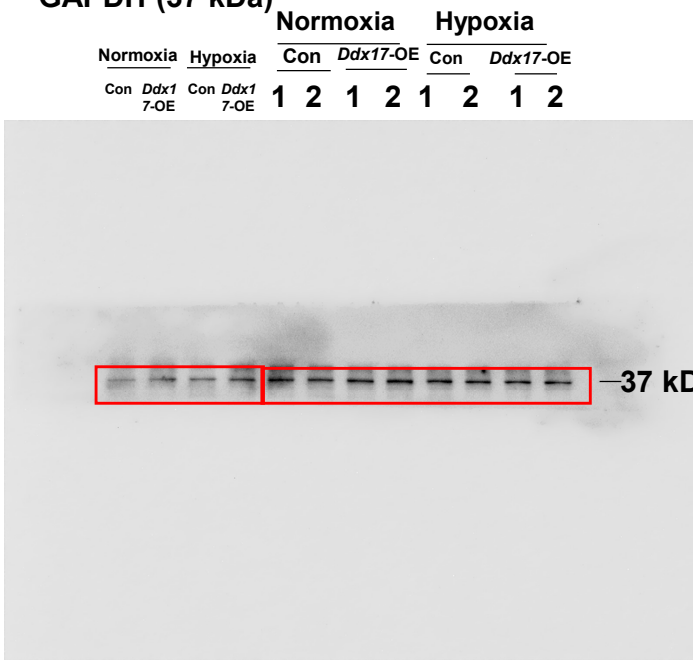
BCL2 (26 kDa)



BAX (21 kDa)



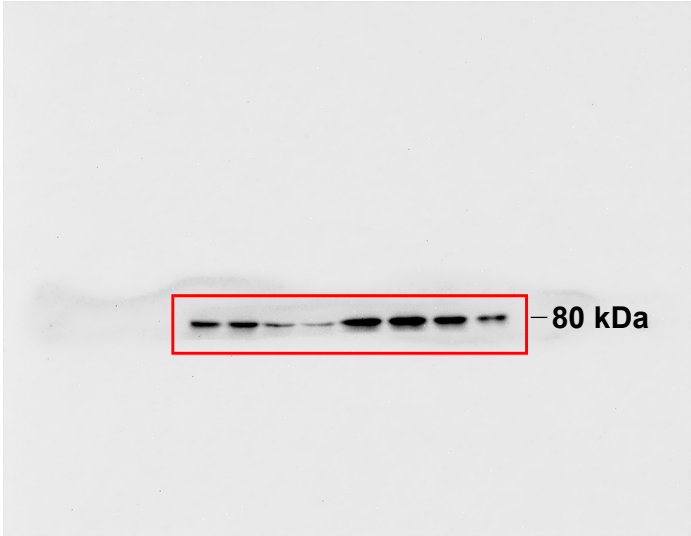
GAPDH (37 kDa)



Supplementary Figure 7g

DRP1 (80 kDa)

Normoxia				Hypoxia			
Con		Ddx17-OE		Con		Ddx17-OE	
1	2	1	2	1	2	1	2

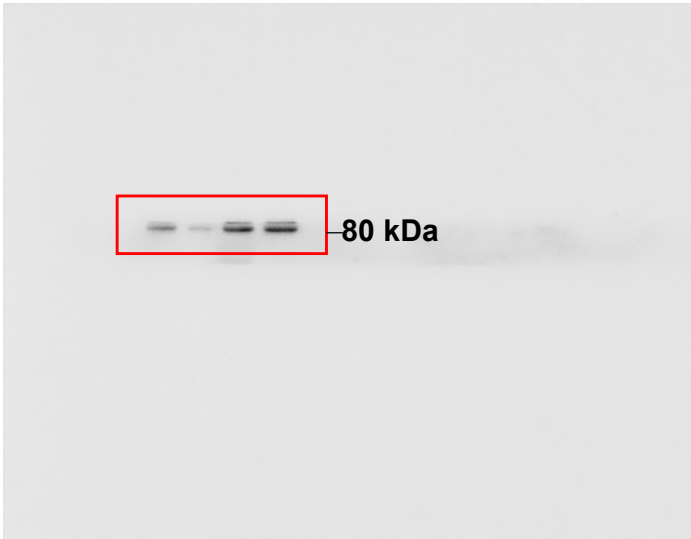


MFN1 (86 kDa)

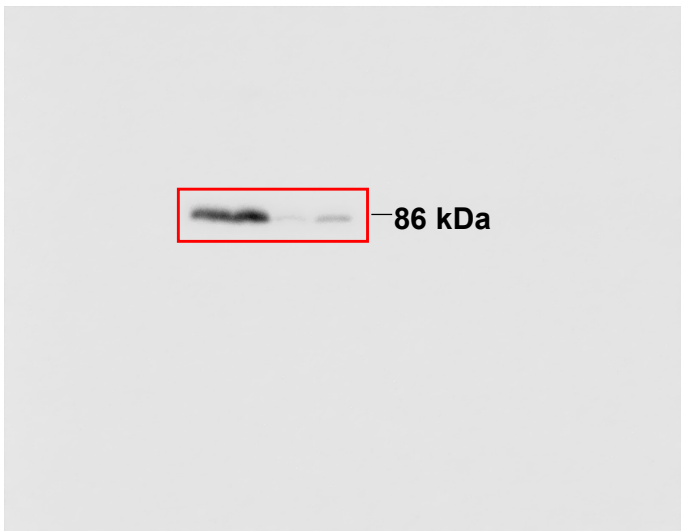
Normoxia				Hypoxia			
Con		Ddx17-OE		Con		Ddx17-OE	
1	2	1	2	1	2	1	2



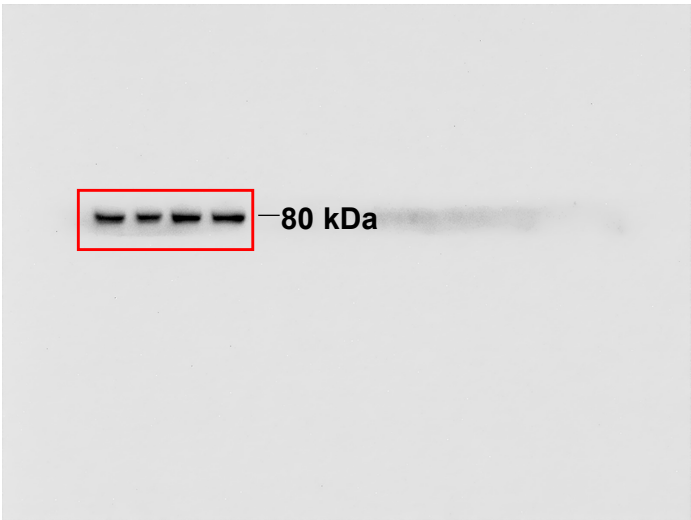
Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	1	2



Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	1	2



Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	1	2



Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	1	2



Supplementary Figure 7g

MFN2 (80 kDa)

Normoxia				Hypoxia			
Con		Ddx17-OE		Con		Ddx17-OE	
1	2	1	2	1	2	1	2

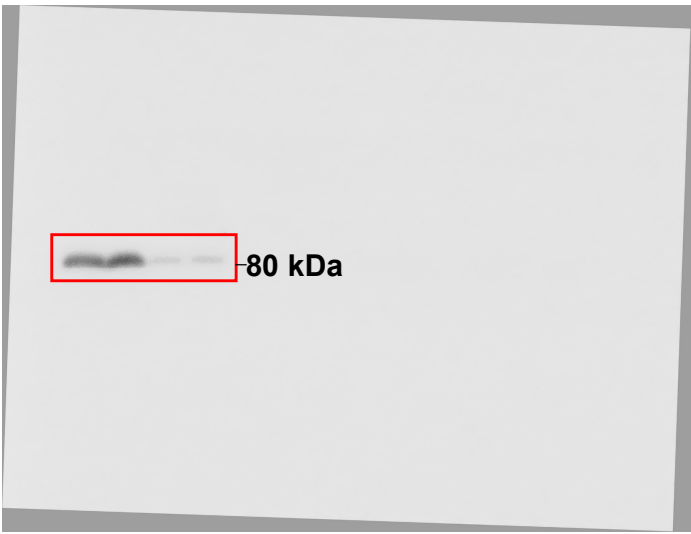


GAPDH (37 kDa)

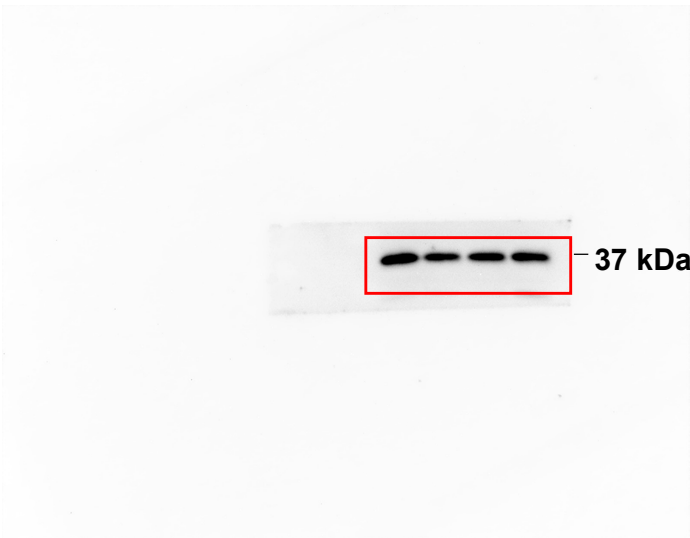
Normoxia				Hypoxia			
Con		Ddx17-OE		Con		Ddx17-OE	
1	2	1	2	1	2	1	2



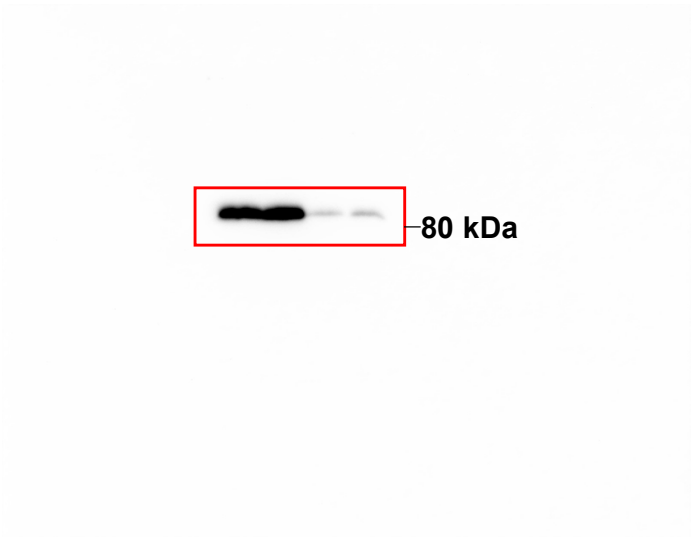
Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE



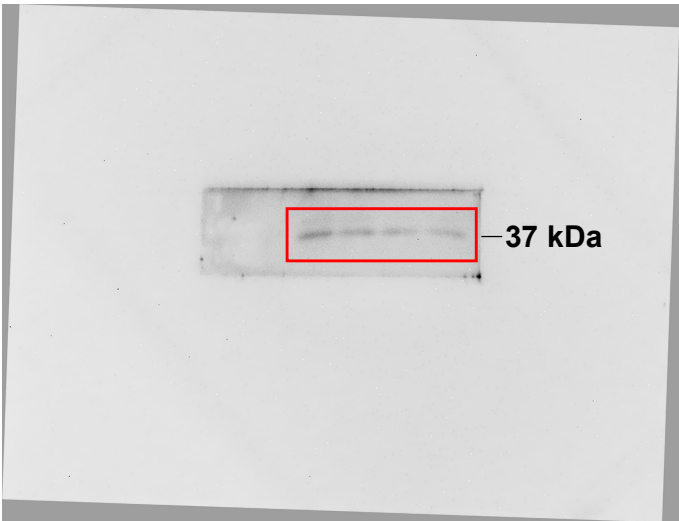
Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE



Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE



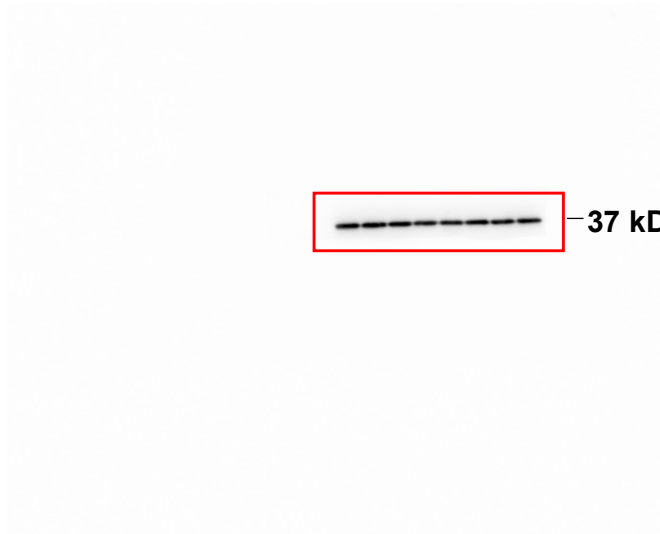
Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE



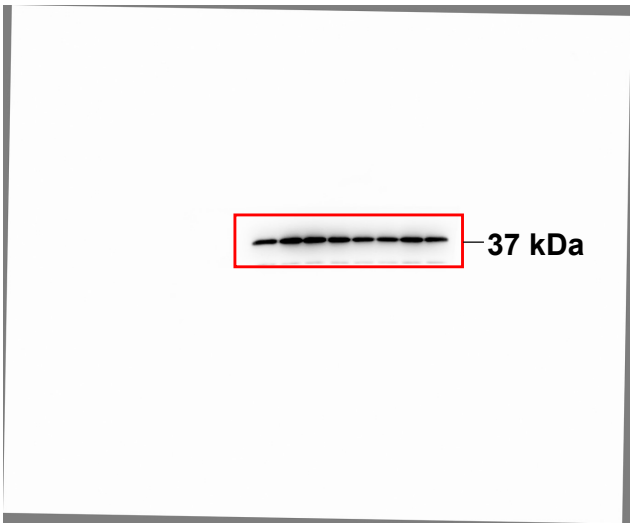
Supplementary Figure 7g

GAPDH (37 kDa)

Normoxia				Hypoxia			
Con		Ddx17-OE		Con		Ddx17-OE	
1	2	1	2	1	2	1	2



Normoxia				Hypoxia			
Con		Ddx17-OE		Con		Ddx17-OE	
1	2	1	2	1	2	1	2



Supplementary Figure 7k

DRP1 (80 kDa)

PBS		H ₂ O ₂	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	3	4

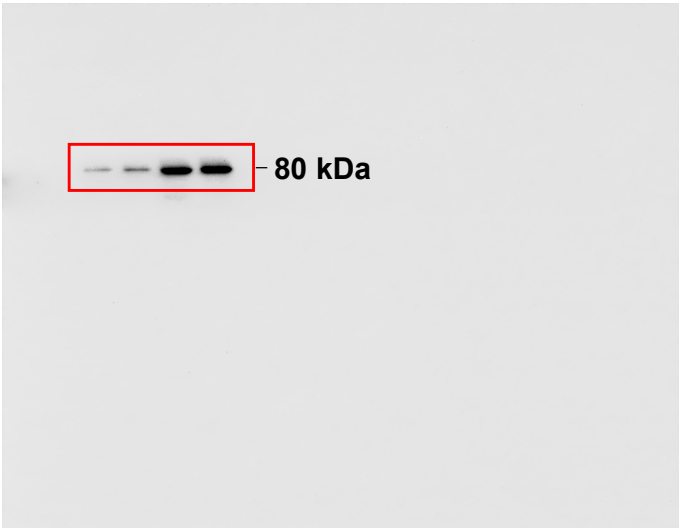


MFN1 (86 kDa)

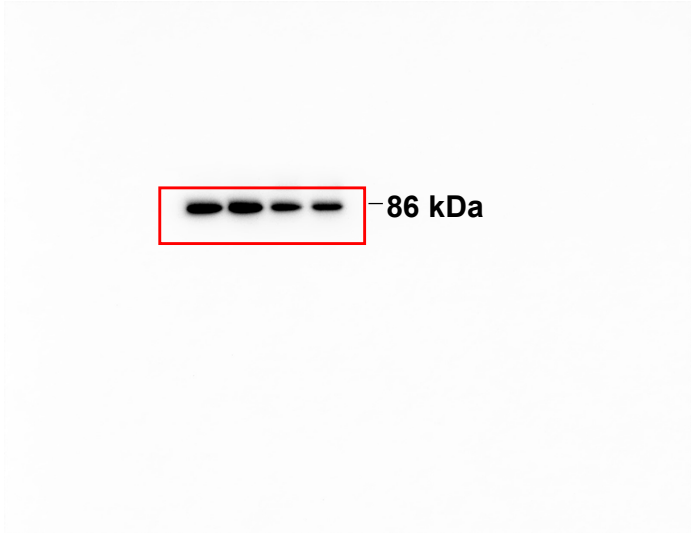
PBS		H ₂ O ₂	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	3	4



Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	3	4



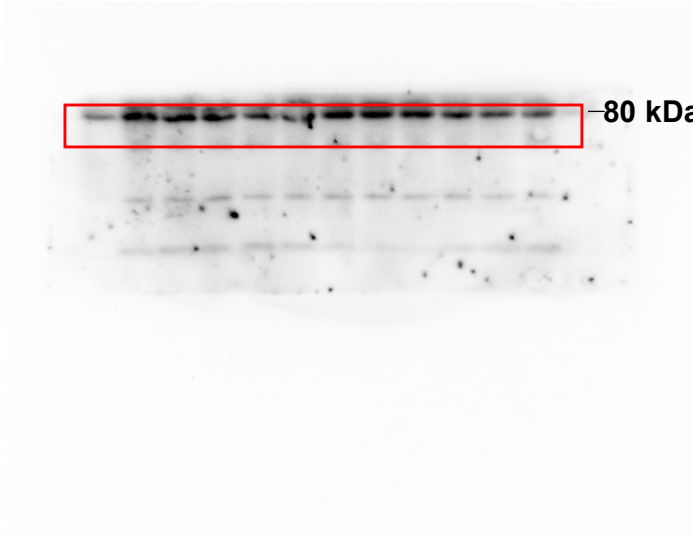
Normoxia		Hypoxia	
Con	Ddx17-OE	Con	Ddx17-OE
1	2	3	4



Supplementary Figure 7k

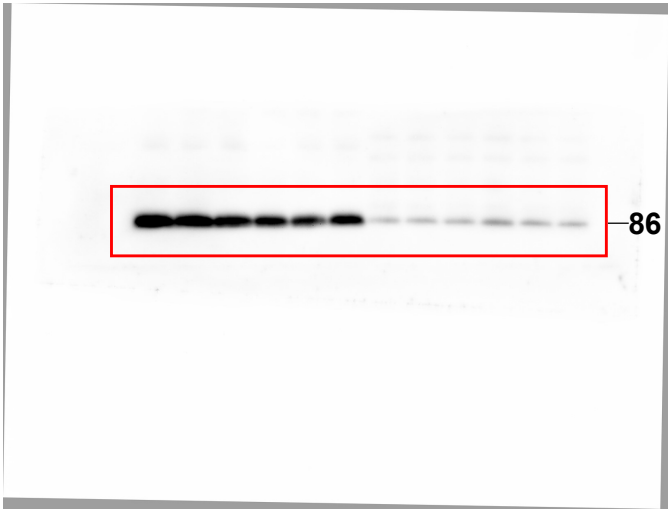
DRP1 (80 kDa)

PBS			H ₂ O ₂		
Con			Ddx17-OE		
1	2	3	1	2	3



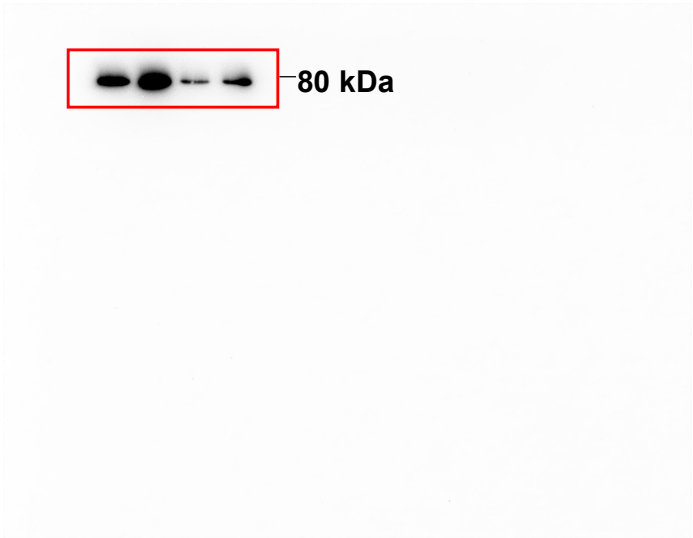
MFN1 (86 kDa)

PBS			H ₂ O ₂		
Con			Ddx17-OE		
1	2	3	1	2	3



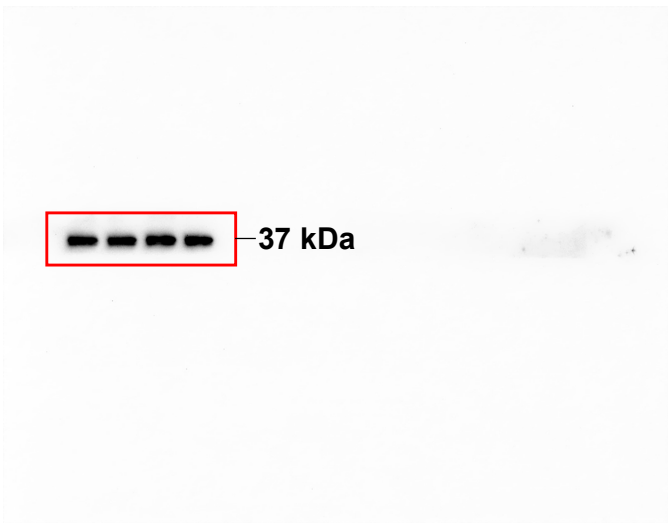
MFN2 (80 kDa)

PBS		H ₂ O ₂	
Con	Ddx17-OE	Con	Ddx17-OE

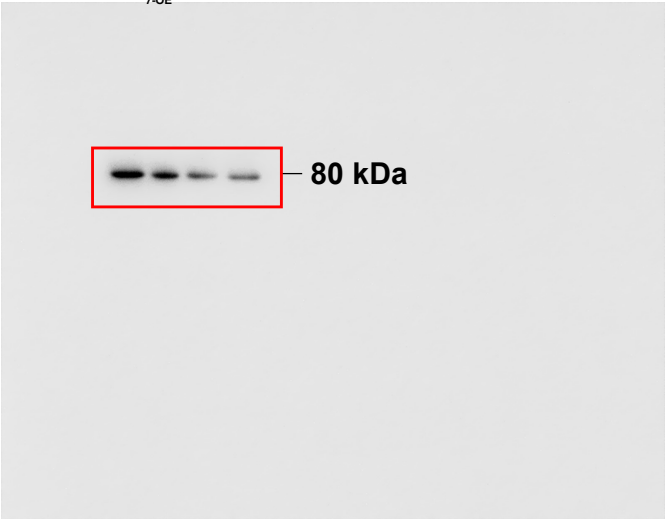


GAPDH (37 kDa)

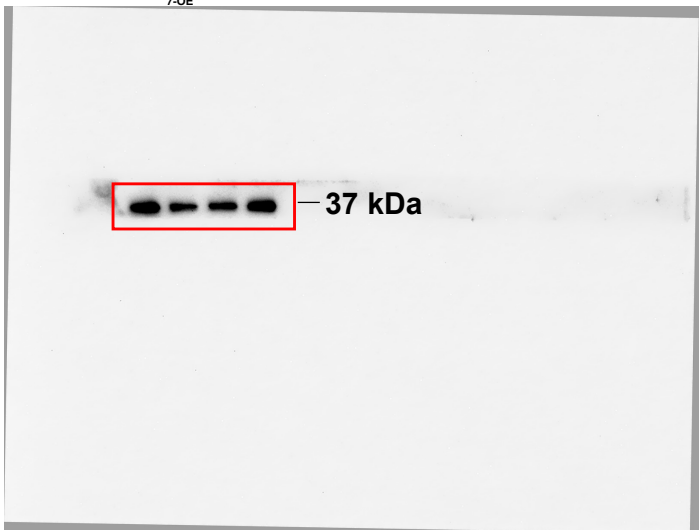
PBS		H ₂ O ₂	
Con	Ddx17-OE	Con	Ddx17-OE



PBS		H ₂ O ₂	
Con	Ddx17-OE	Con	Ddx17-OE



PBS		H ₂ O ₂	
Con	Ddx17-OE	Con	Ddx17-OE



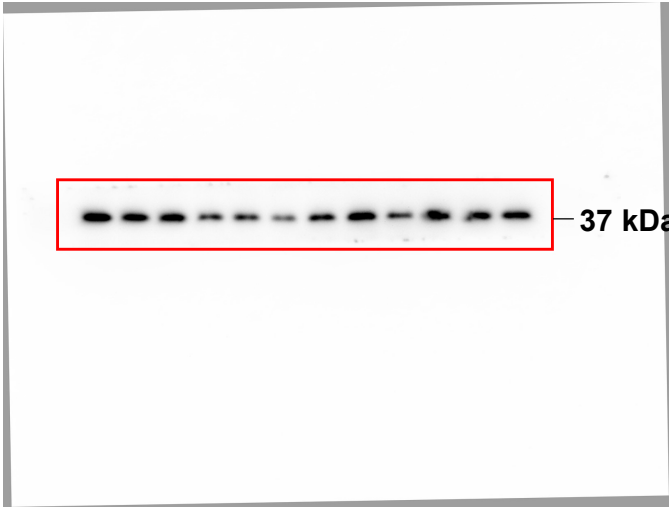
Supplementary Figure 7k

MFN2 (80 kDa)

PBS						H ₂ O ₂					
Con			Ddx17-OE			Con			Ddx17-OE		
1	2	3	1	2	3	1	2	3	1	2	3

GAPDH (37 kDa)

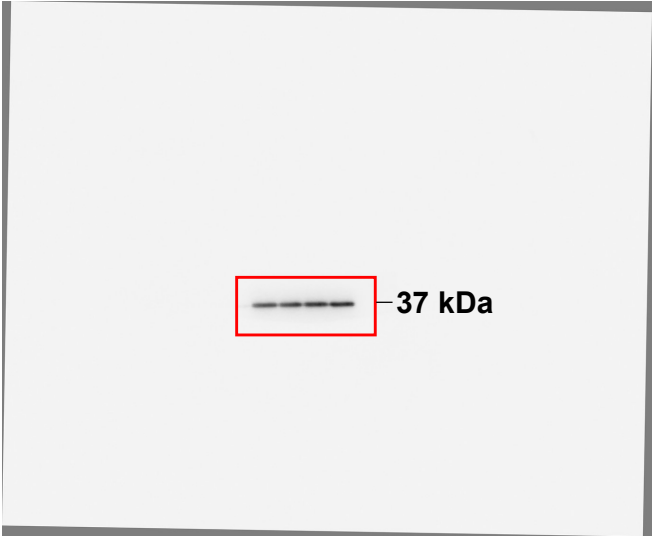
PBS						H ₂ O ₂					
Con			Ddx17-OE			Con			Ddx17-OE		
1	2	3	1	2	3	1	2	3	1	2	3



GAPDH (37 kDa)

PBS		H ₂ O ₂	
Con	OE	Con	OE

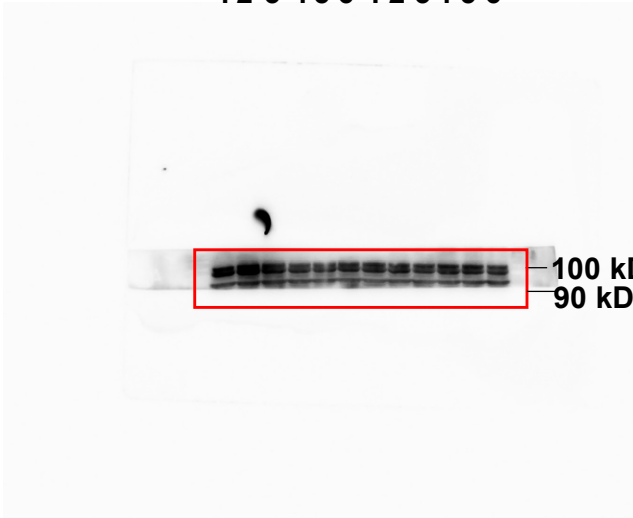
PBS		H ₂ O ₂	
Con	OE	Con	OE



Supplementary Figure 7o

OPA1 (80-100 kDa)

Con					Ddx17-cKO					
1	2	3	4	5	1	2	3	4	5	6



MFF (35 and 38 kDa)

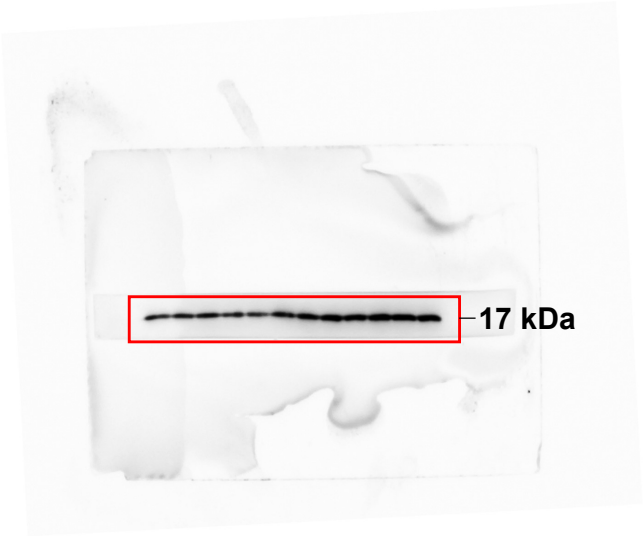
Con					Ddx17-cKO					
1	2	3	4	5	1	2	3	4	5	6



Supplementary Figure 7o

FIS1 (17 kDa)

Con						<i>Ddx17</i> -cKO					
1	2	3	4	5	6	1	2	3	4	5	6



Tubulin (55 kDa)

Con						<i>Ddx17</i> -cKO					
1	2	3	4	5	6	1	2	3	4	5	6



Supplementary Figure 8c

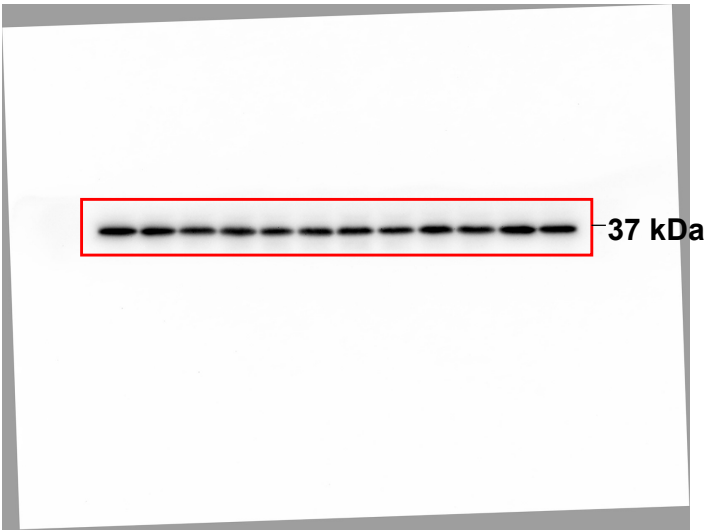
DRP1 (80 kDa)

Con						<i>Ddx17</i> -cKO					
1	2	3	4	5	6	1	2	3	4	5	6



GAPDH (37 kDa)

Con						<i>Ddx17</i> -cKO					
1	2	3	4	5	6	1	2	3	4	5	6



Supplementary Figure 8e

DRP1 (80 kDa)

Con						<i>Ddx17</i> -Tg					
1	2	3	4	5	6	1	2	3	4	5	6



GAPDH (37 kDa)

Con						<i>Ddx17</i> -Tg					
1	2	3	4	5	6	1	2	3	4	5	6

