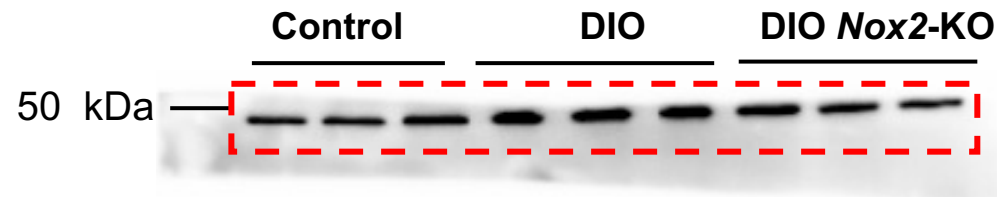
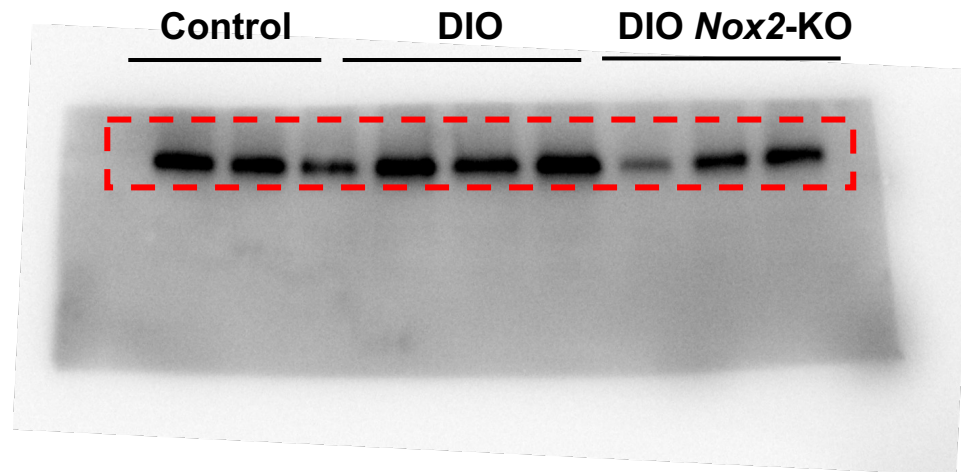


# Unedited Figure 7H- Pitx2 blot



**Blot 1- Actin**



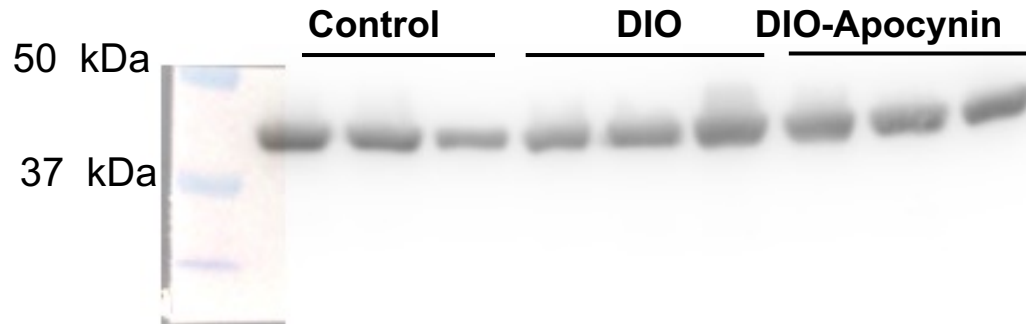
**Blot 1- Pitx2**

Red box refers to blot used in figure

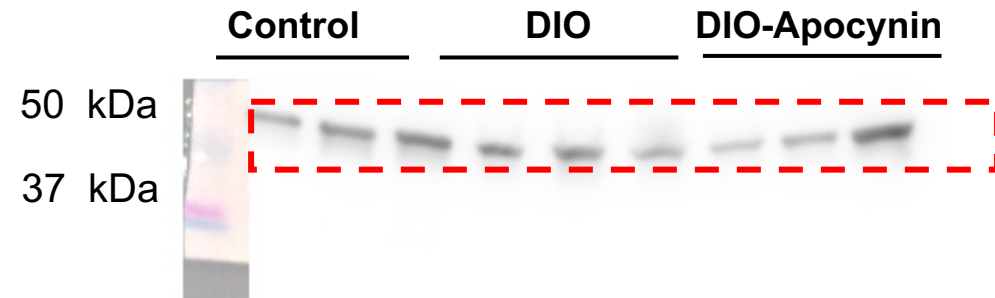
# Unedited Figure S3D- Nav1.5

## blots

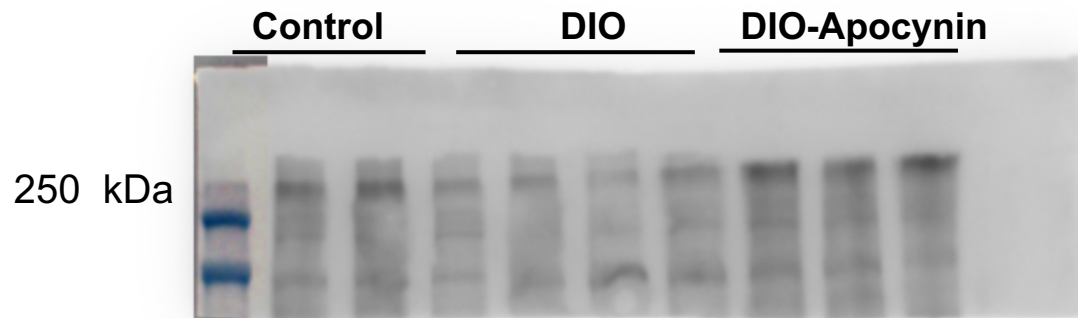
### Blot-1 Actin



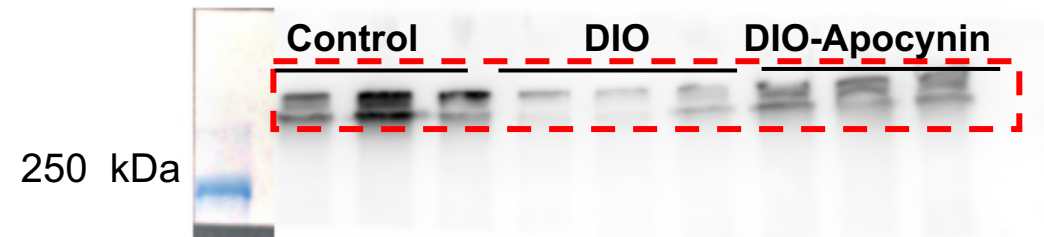
### Blot-2 Actin



### Blot-1 Nav1.5



### Blot-2 Nav1.5

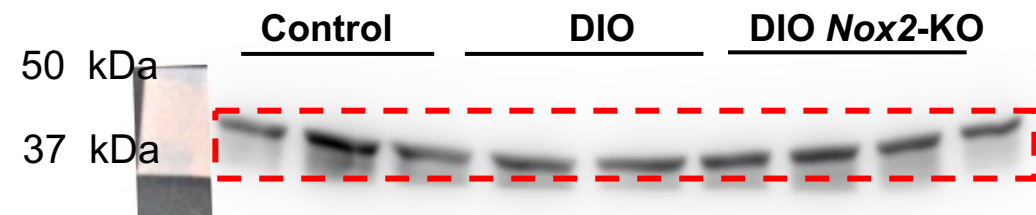


Red box refers to blot used in figure

# Unedited Figure S3D/E- Nav1.5

## blots

### Actin -1

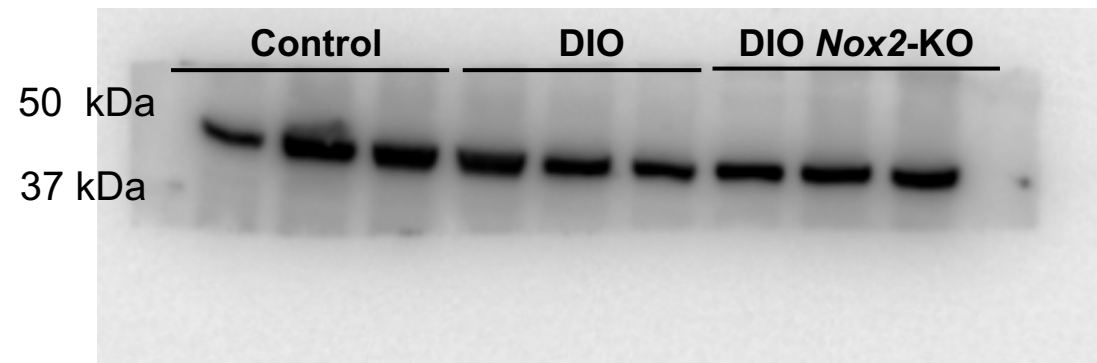


Control

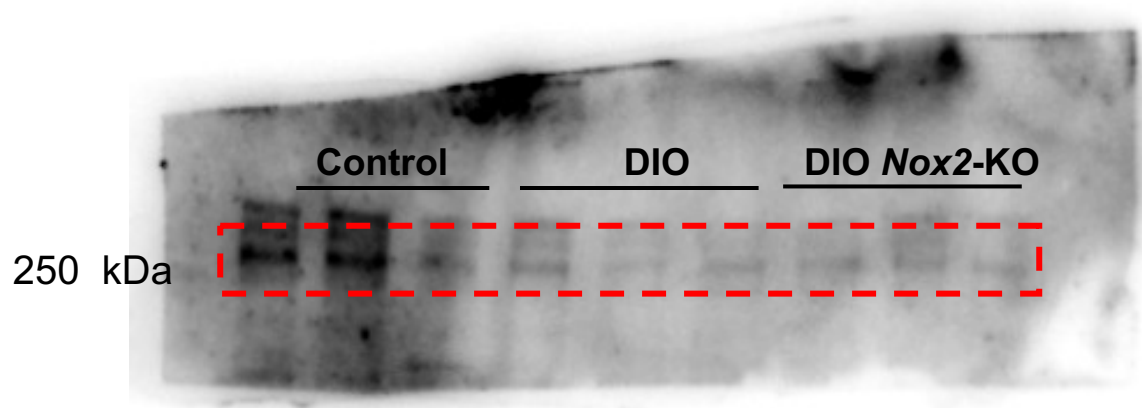
DIO

DIO Nox2-KO

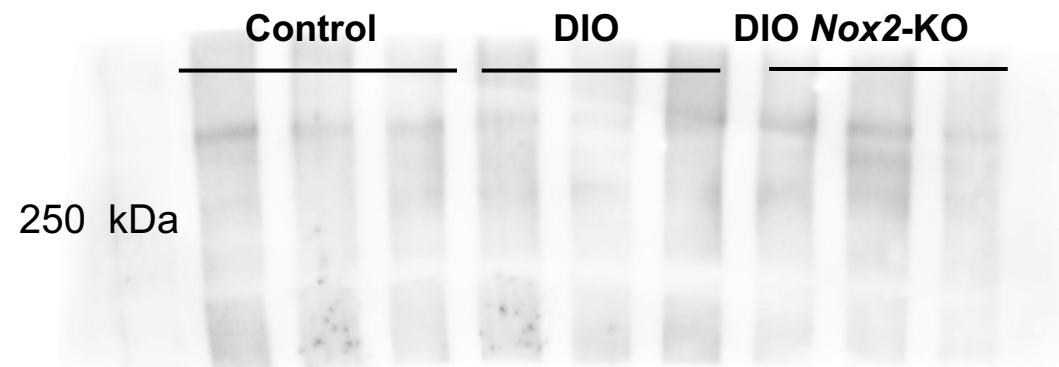
### Actin -2



### Nav1.5-1



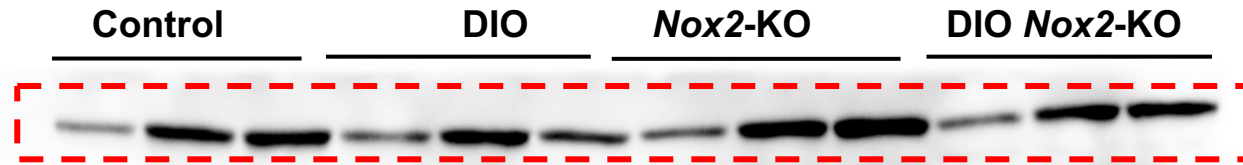
### Nav1.5-2



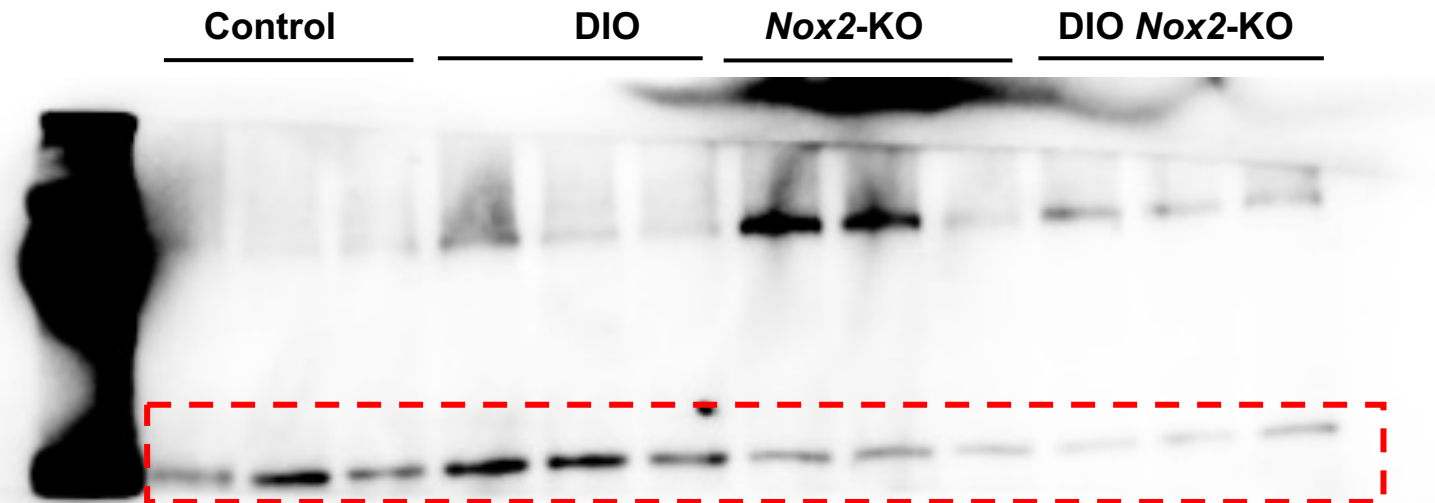
Red box refers to blot used in figure

# Unedited Figure S3G- PKC- $\alpha$ blots

Actin



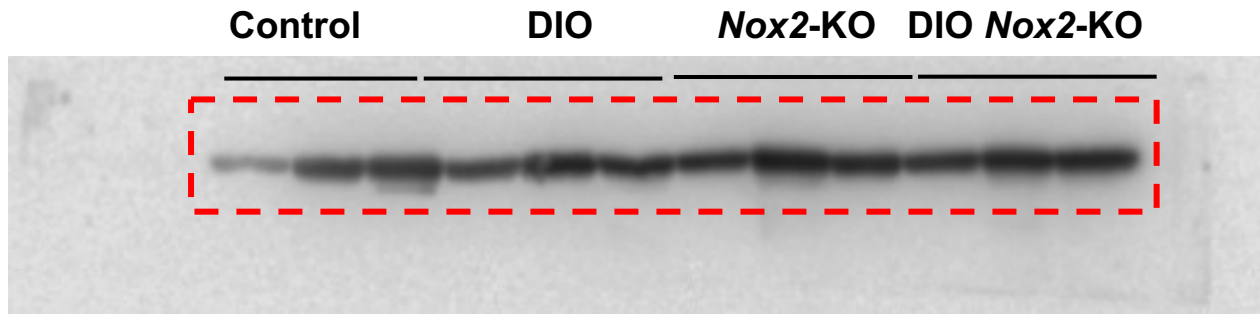
Pkc-a



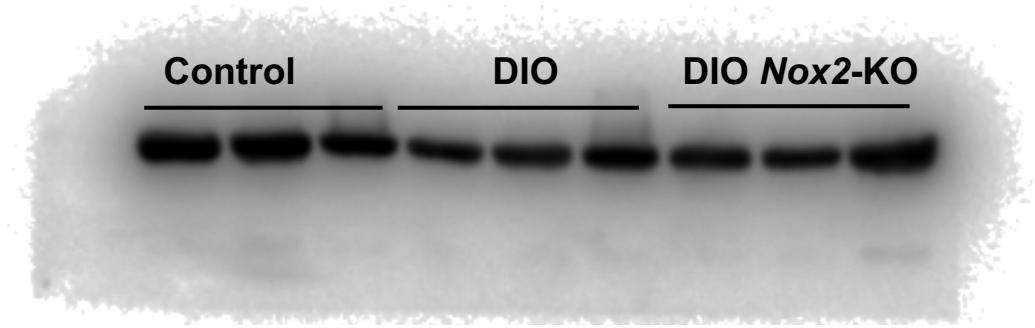
Red box refers to blot used in figure

# Unedited Figure S3H- PKC- $\delta$ blots

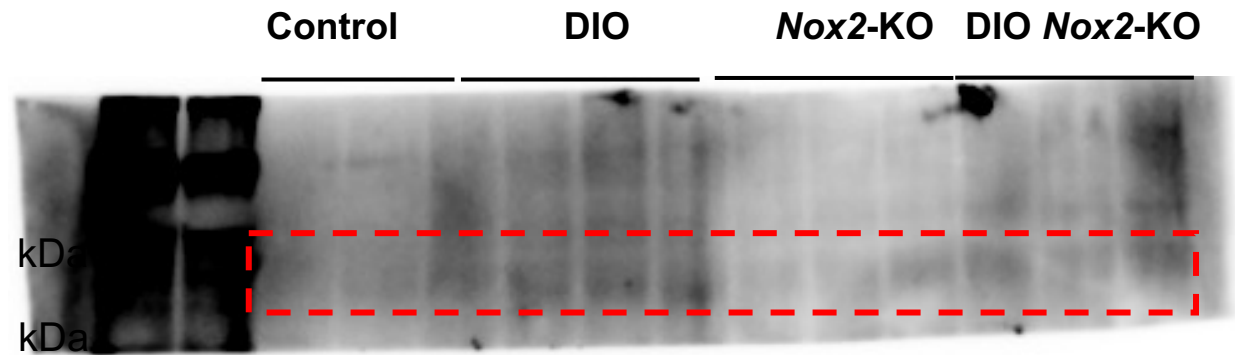
## Actin -1



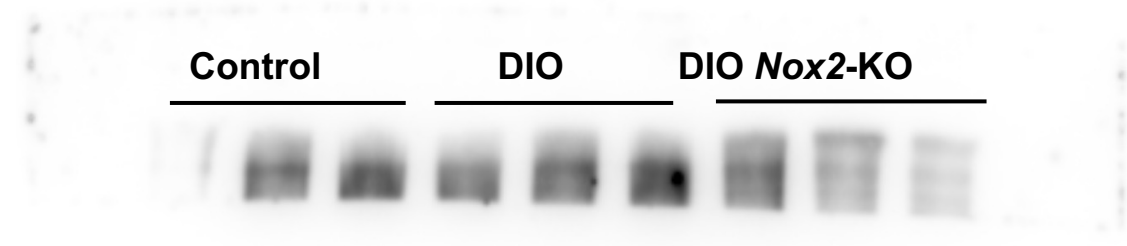
## Actin -2



## Pkc-d-1



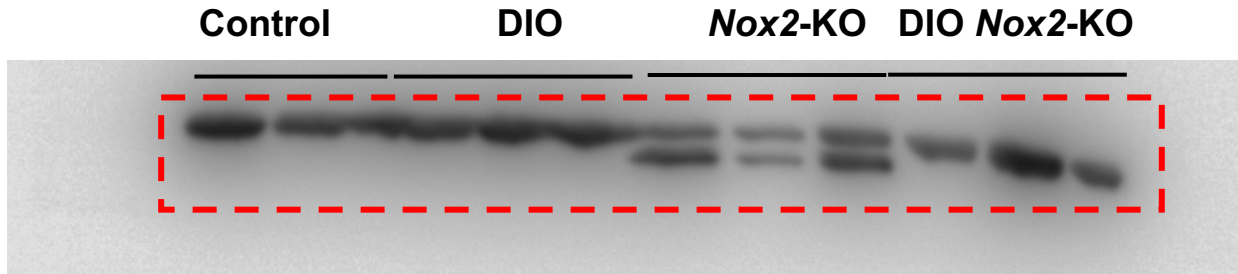
## Pkc-d-2



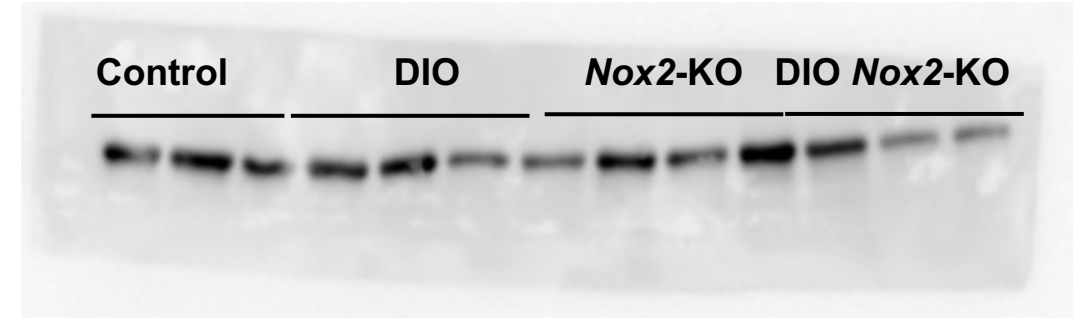
Red box refers to blot used in figure

# Unedited Figure S4C- Kv7.1 blots

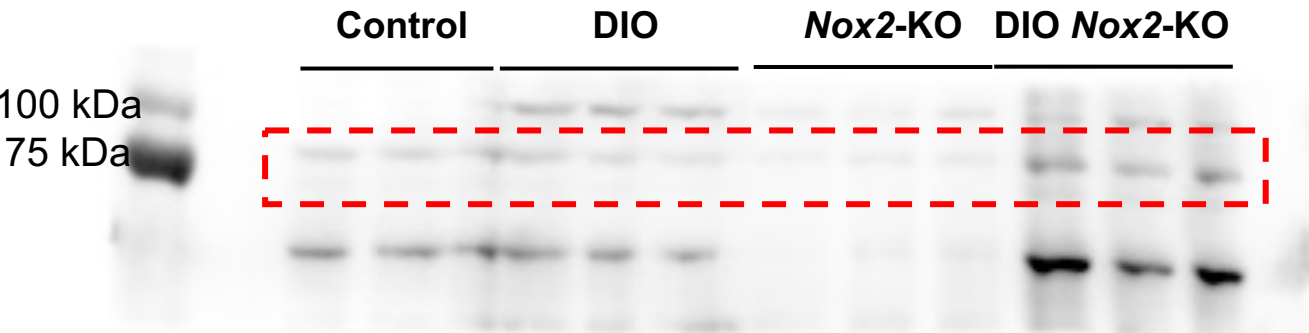
**Actin -1**



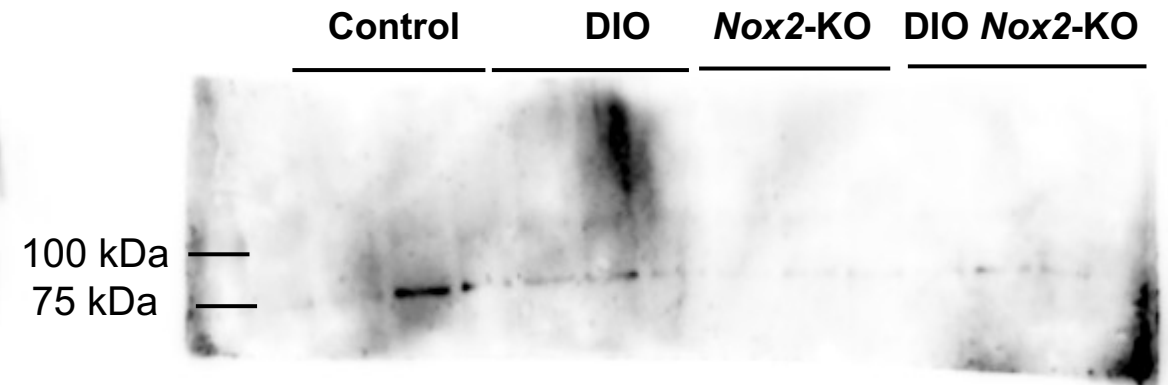
**Actin -2**



**Kv7.1-1**



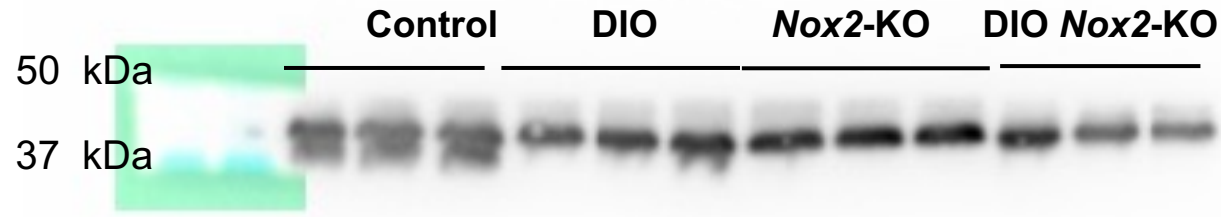
**Kv7.1-2**



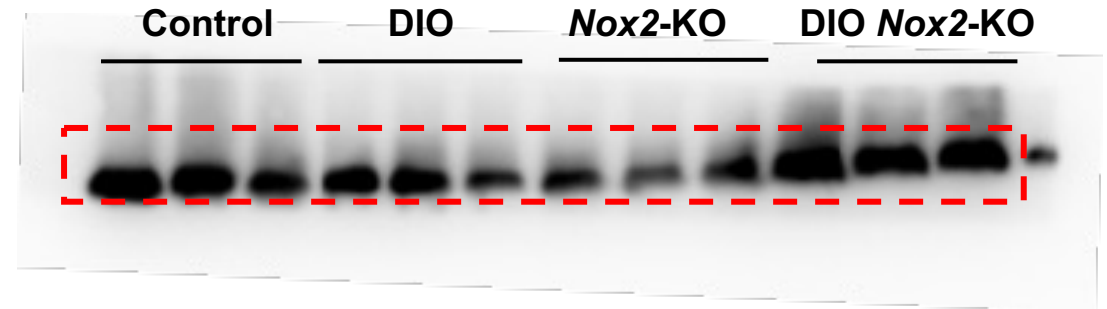
Red box refers to blot used in figure

# Unedited Figure S4D- MinK blots

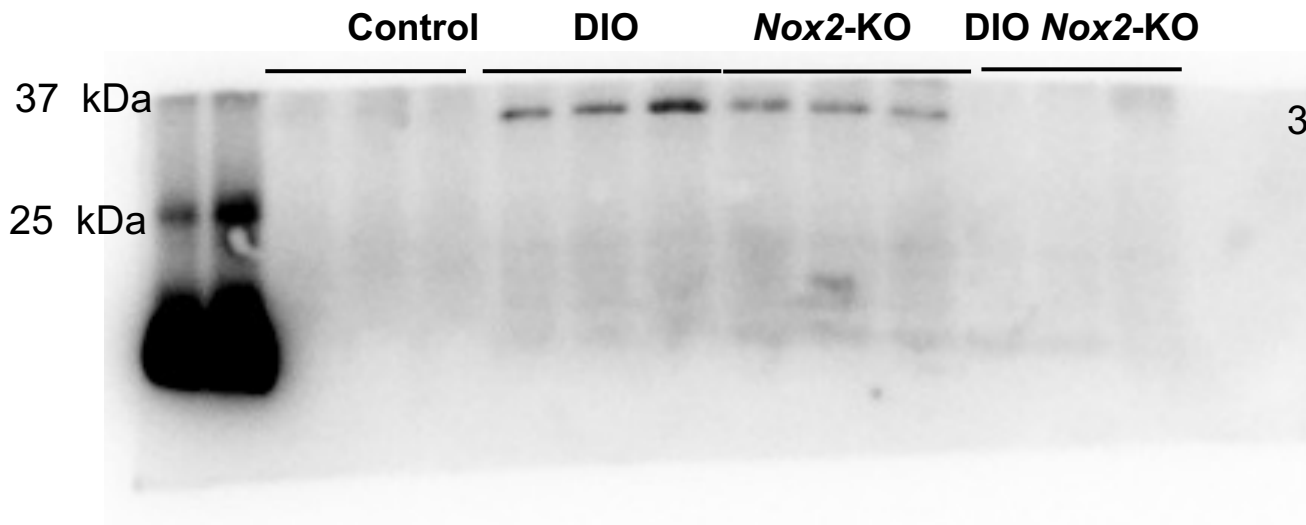
## Actin -1



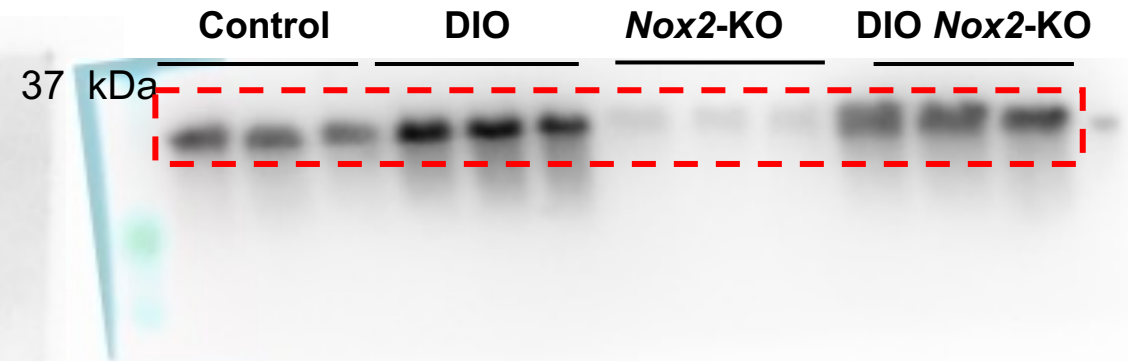
## Actin -2



## MinK-1



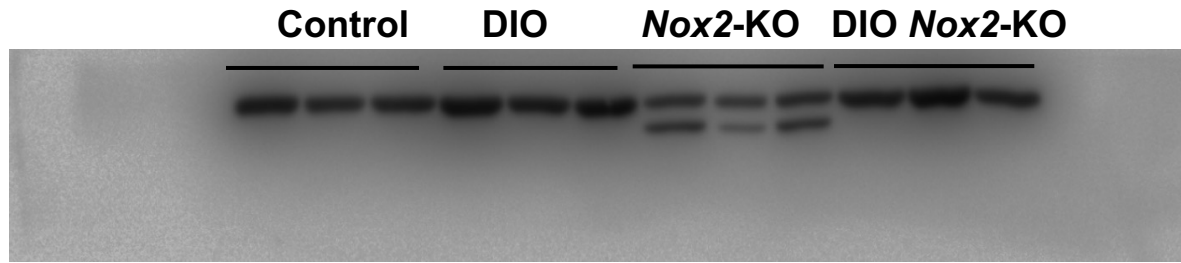
## MinK-2



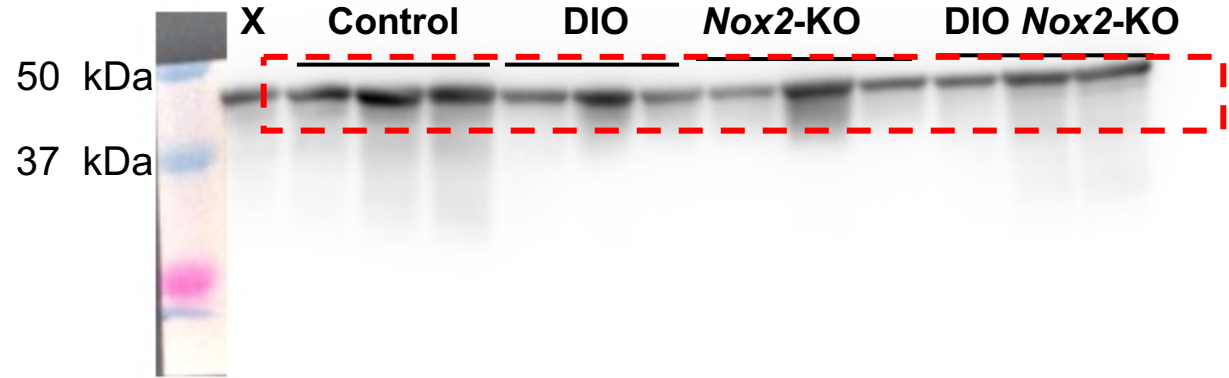
Red box refers to blot used in figure

# Unedited Figure S4E- Kv1.5 blots

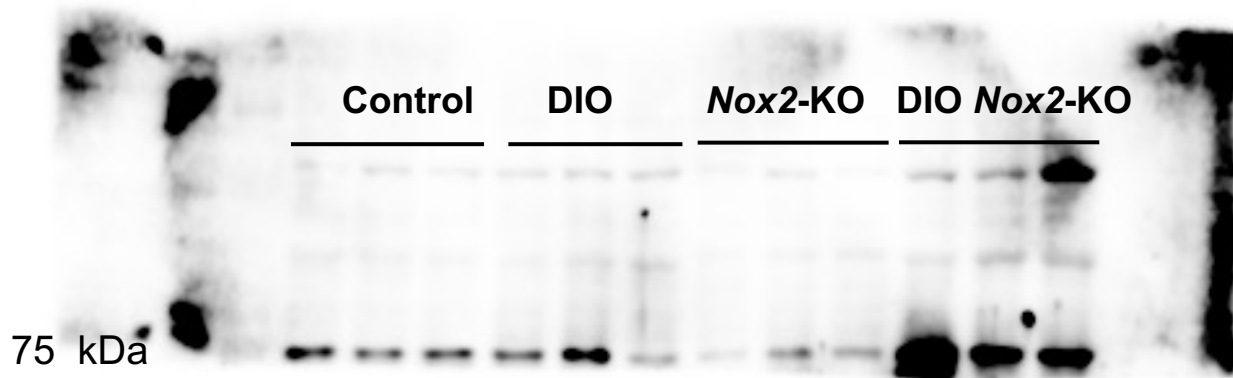
**Actin -1**



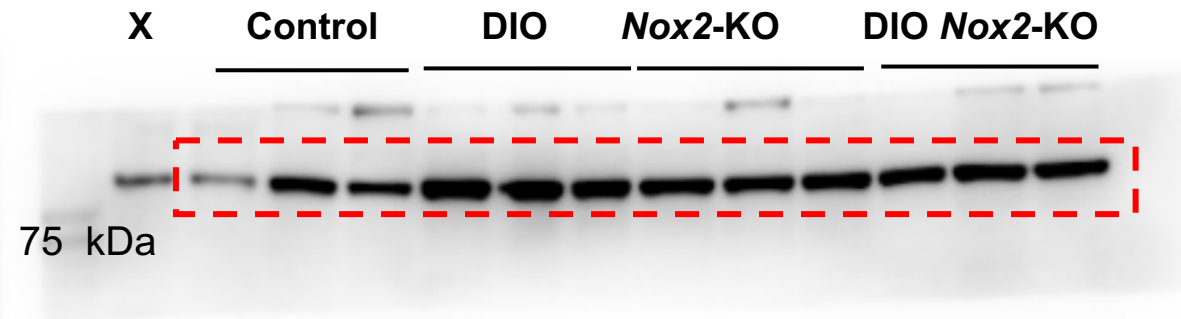
**Actin -2**



**Kv1.5-1**



**Kv1.5-2**

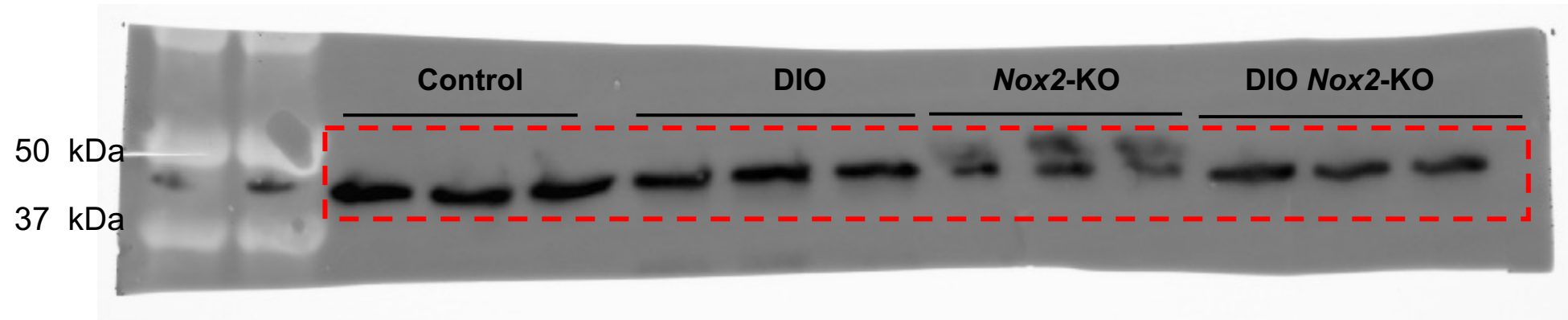


Red box refers to blot used in figure

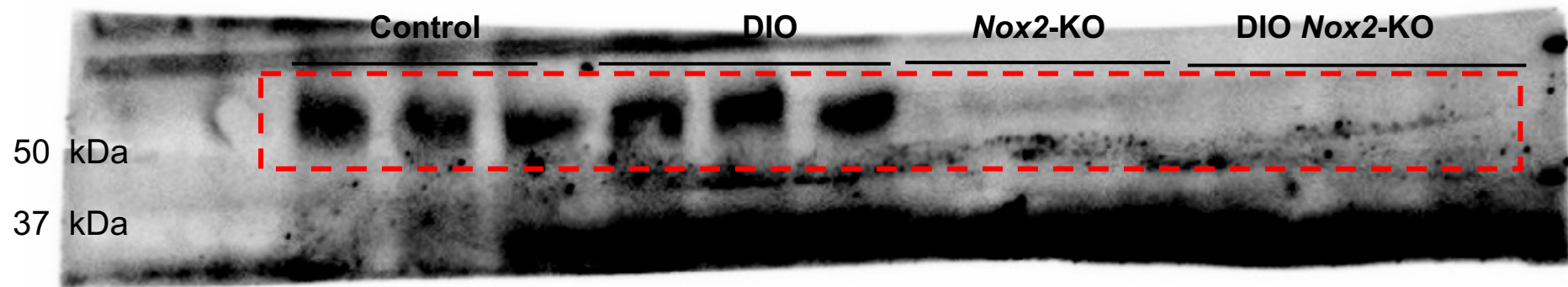


# Unedited Figure S4F- Kir3.1 blot

## Blot 1- Actin



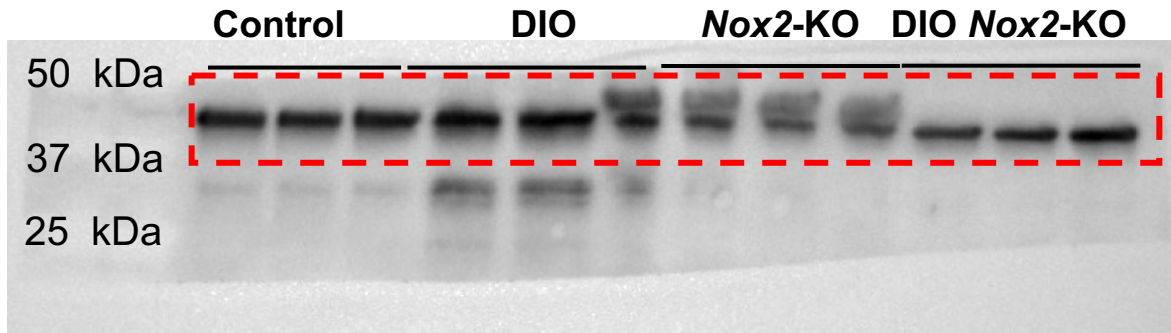
## Blot 1- Kir3.1



Red box refers to blot used in figure

# Unedited Figure S4G- Anp blots

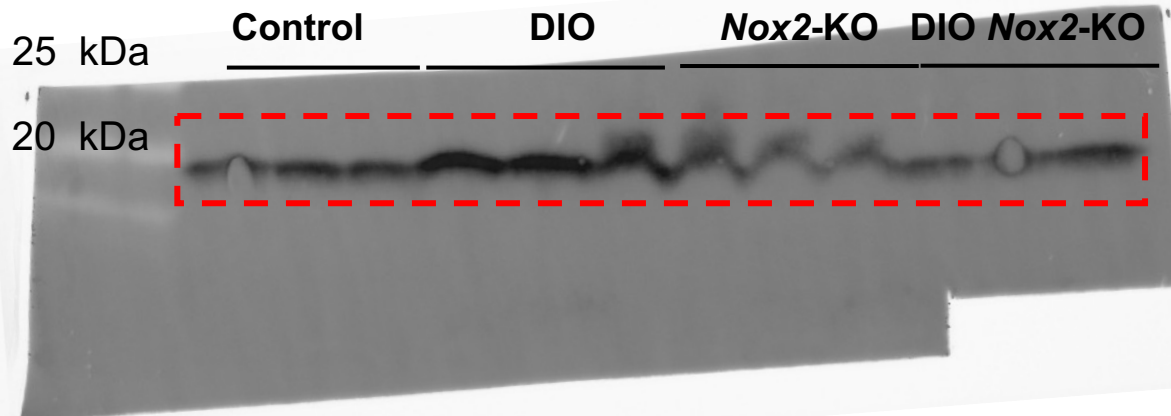
## Actin -1



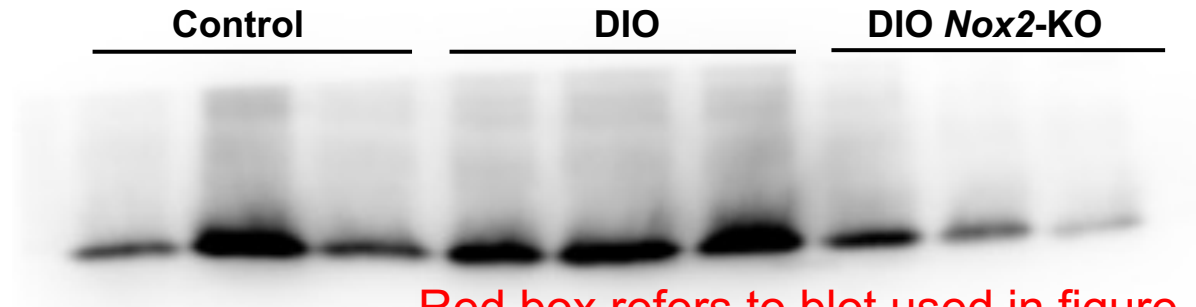
## Actin -2



## Anp-1



## Anp-2



Red box refers to blot used in figure

# Unedited Figure S9A- cTnI blots

**Actin -1**



**Actin -2**



**cTnI-1**



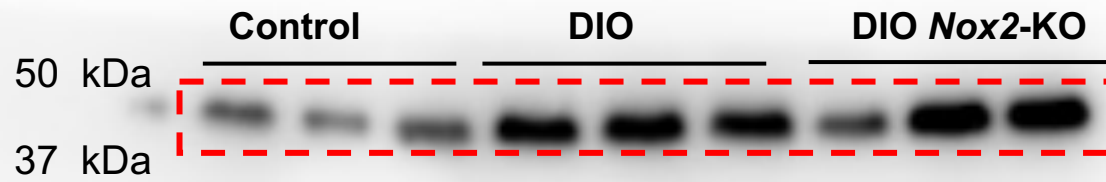
**cTnI- 2**



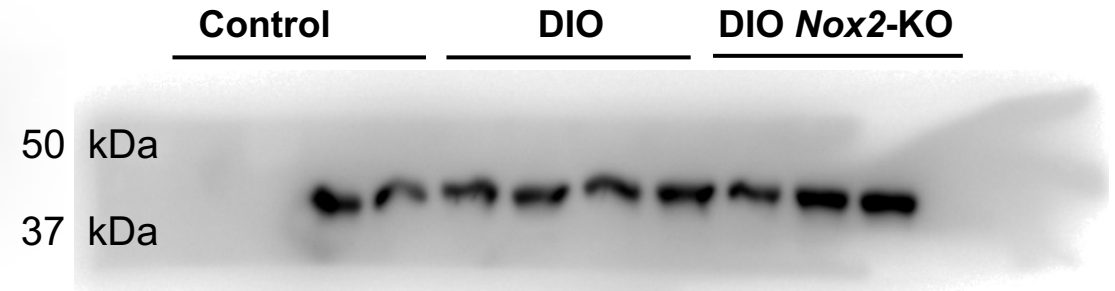
Red box refers to blot used in figure

# Unedited Figure S9B- cTnT blots

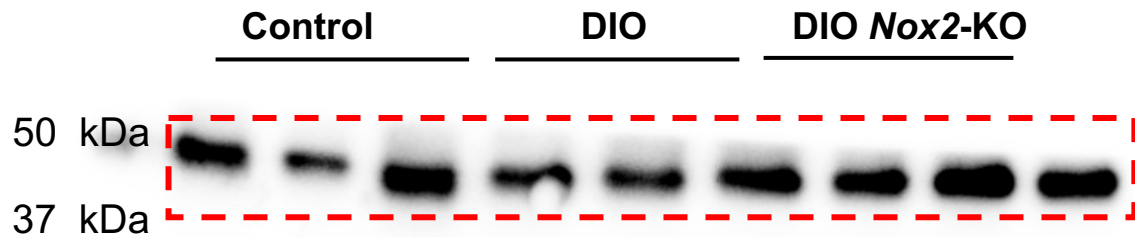
**Actin -1**



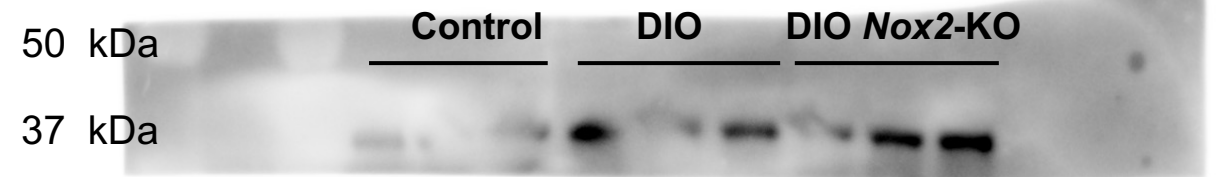
**Actin -2**



**cTnT-1**



**cTnT- 2**

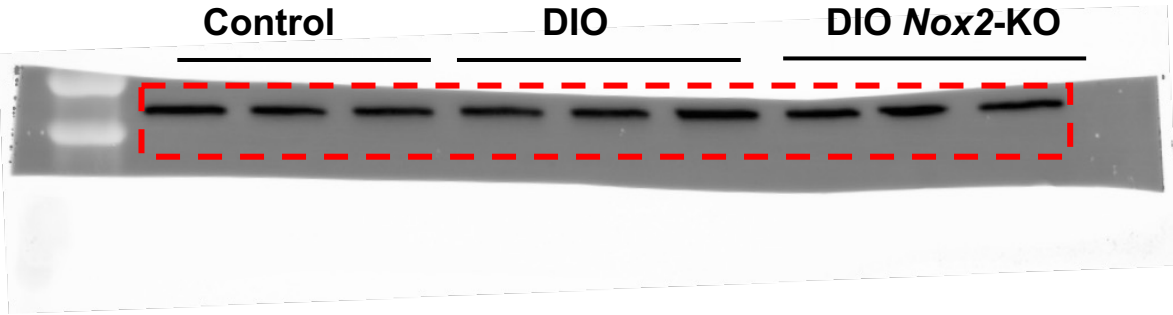


Red box refers to blot used in figure

# Unedited Figure S9C- Mybpc3 blots

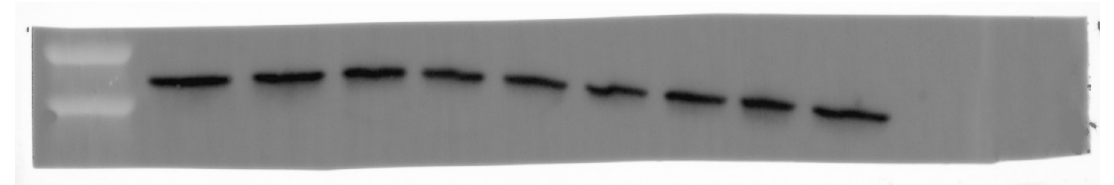
## Actin -1

Control                      DIO                      DIO Nox2-KO



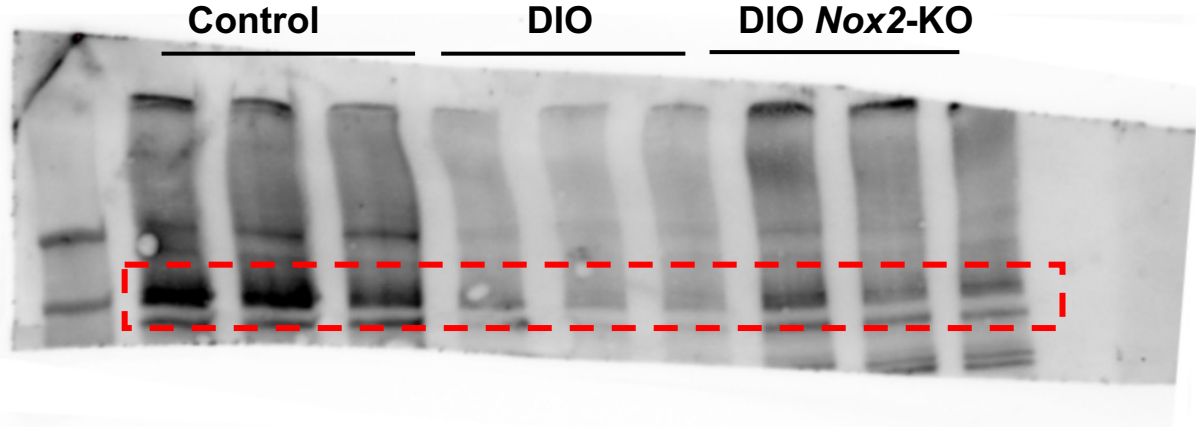
## Actin -2

Control                      DIO                      DIO Nox2-KO



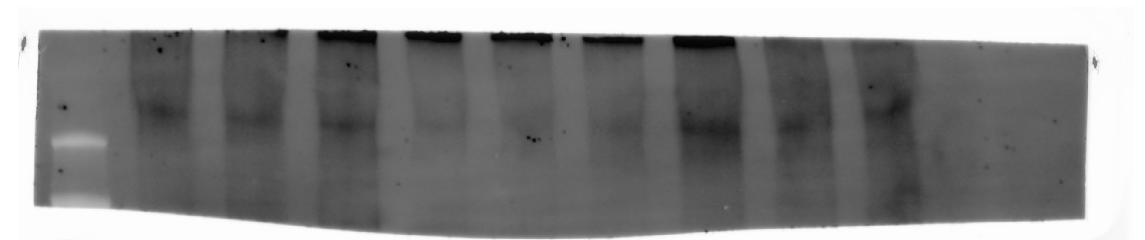
## Mybpc3-1

Control                      DIO                      DIO Nox2-KO



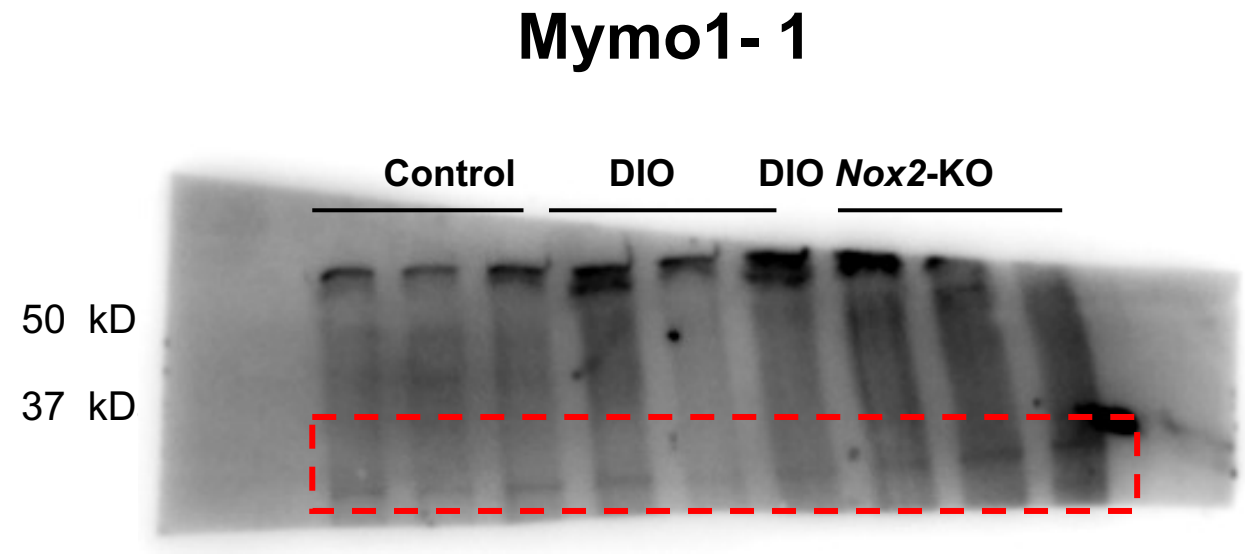
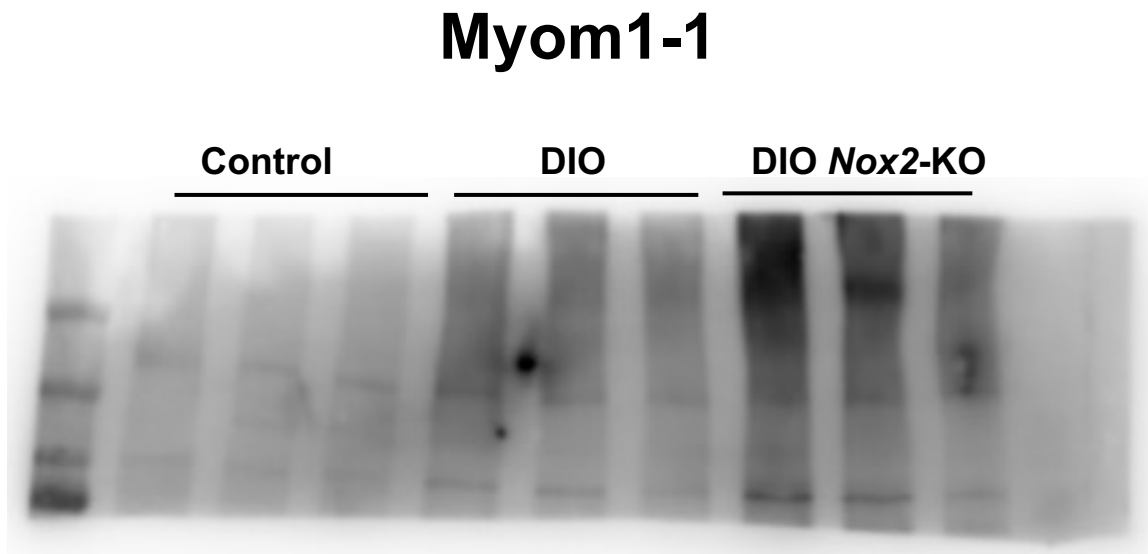
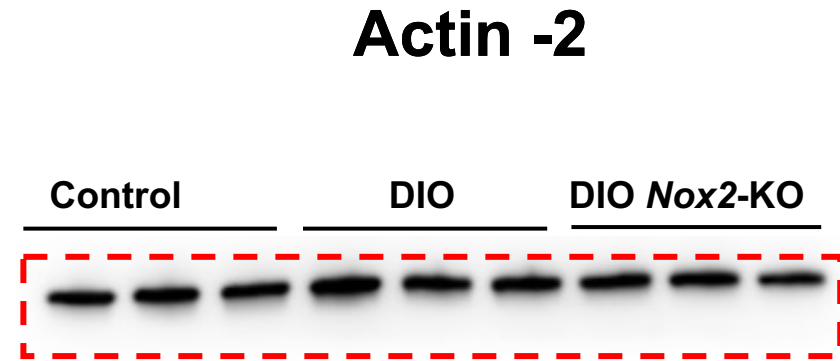
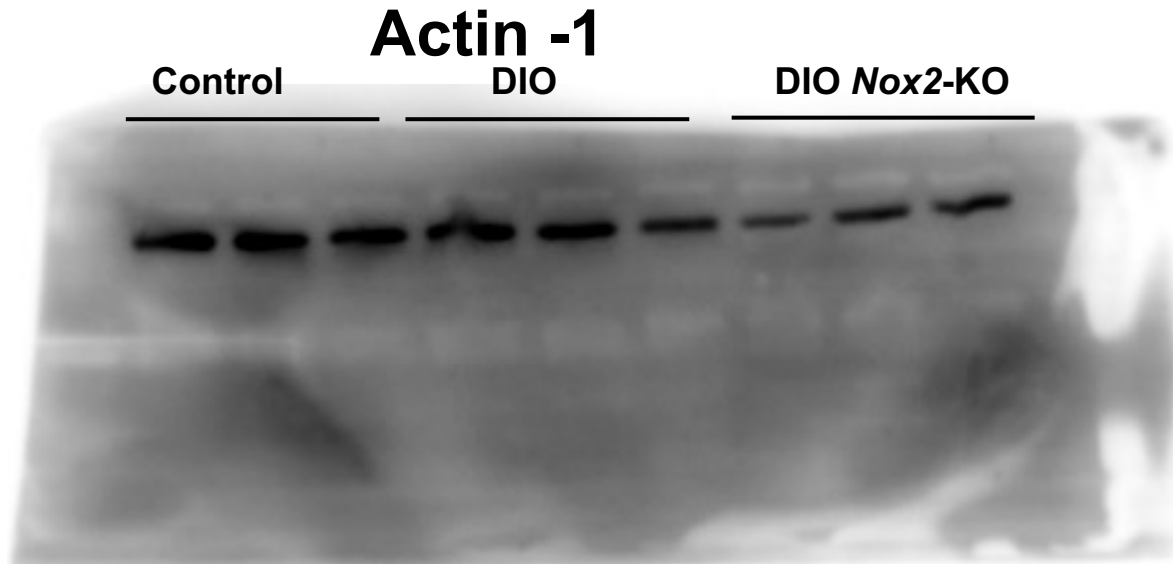
## Mymo1- 1

Control                      DIO                      DIO Nox2-KO



Red box refers to blot used in figure

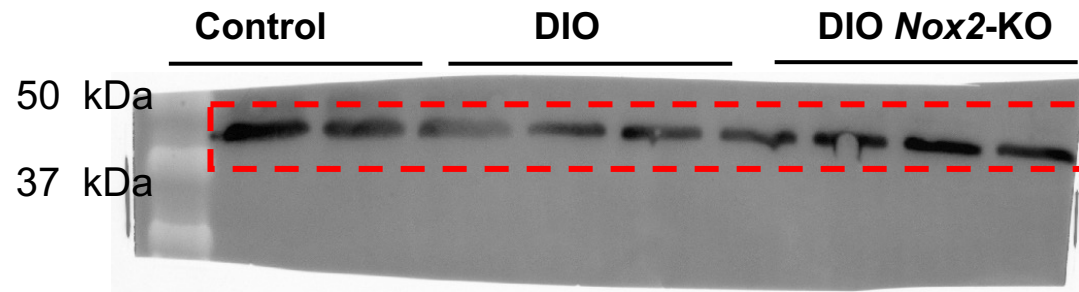
# Unedited Figure S9D- Myom1 blots



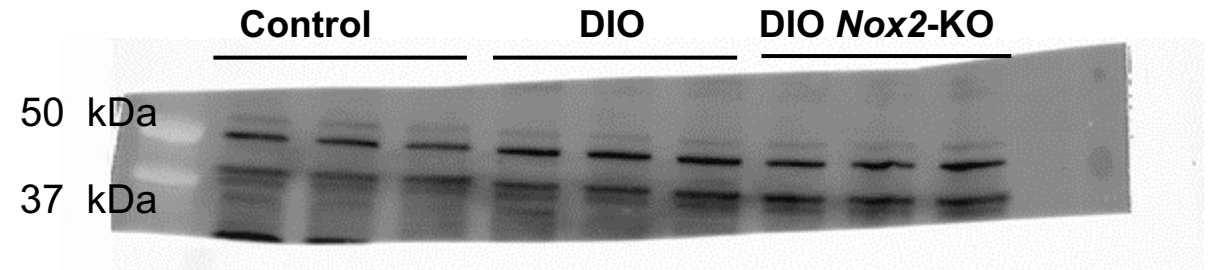
Red box refers to blot used in figure

# Unedited Figure S9E- Myl7 blots

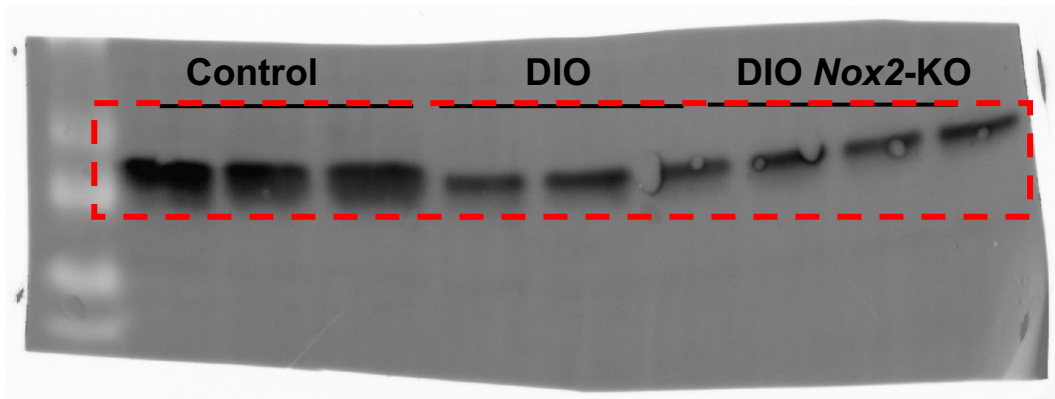
## Actin -1



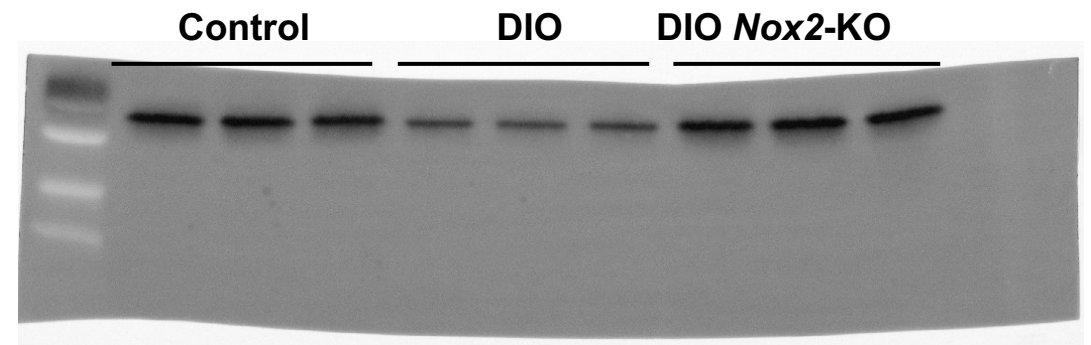
## Actin -2



## Myl7-1



## Myl7- 2



Red box refers to blot used in figure

# Unedited Figure S9F- Mlc2v blots

## Actin -1

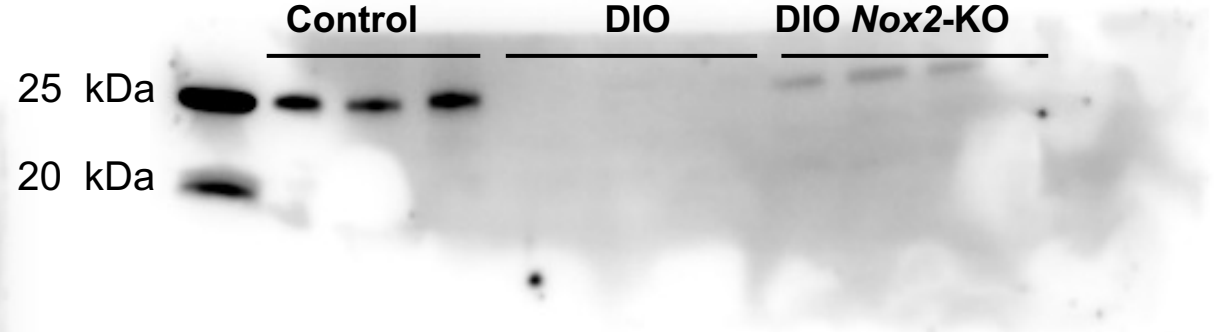
## Actin -2

Control      DIO      DIO Nox2-KO



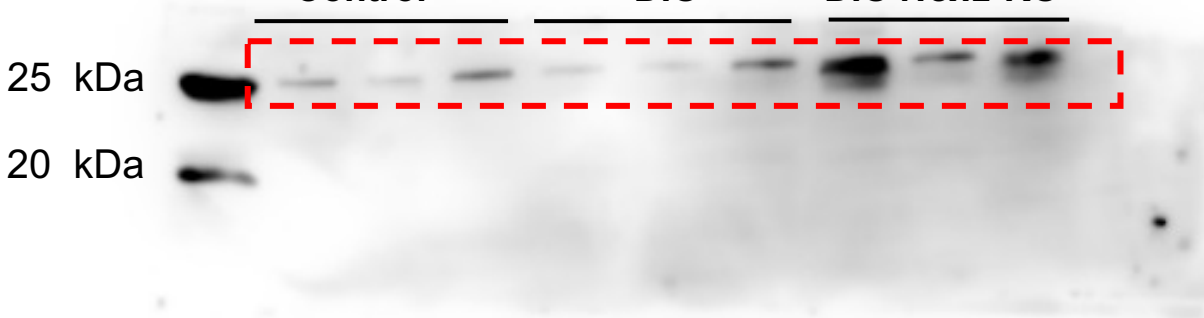
## Mlc2v- 2

Control      DIO      DIO Nox2-KO



## Mlc2v-1

Control      DIO      DIO Nox2-KO



Red box refers to blot used in figure



# Unedited Figure S9G- Cpt1 $\alpha$ blots

Actin -1

Actin -2

Control

DIO

DIO Nox2-KO

Control

DIO

Nox2-KO

DIO Nox2-KO

Cpt1a-1

Cpt1a- 2

Control

DIO

DIO Nox2-KO

Control

DIO

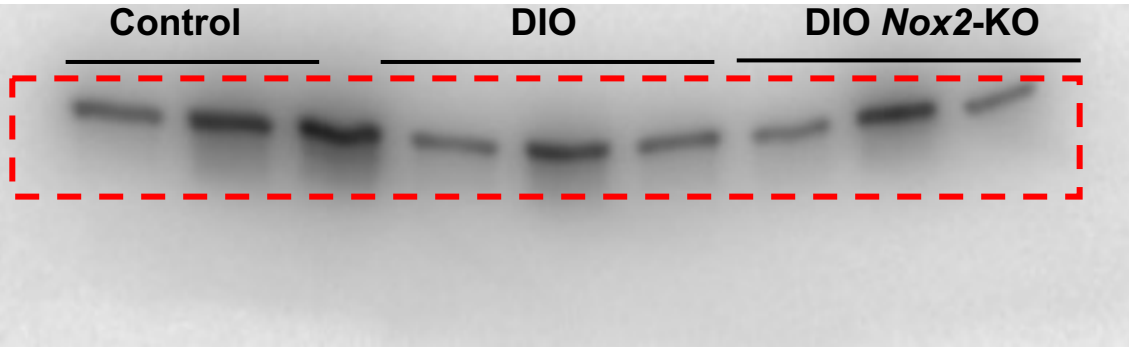
Nox2-KO

DIO Nox2-KO

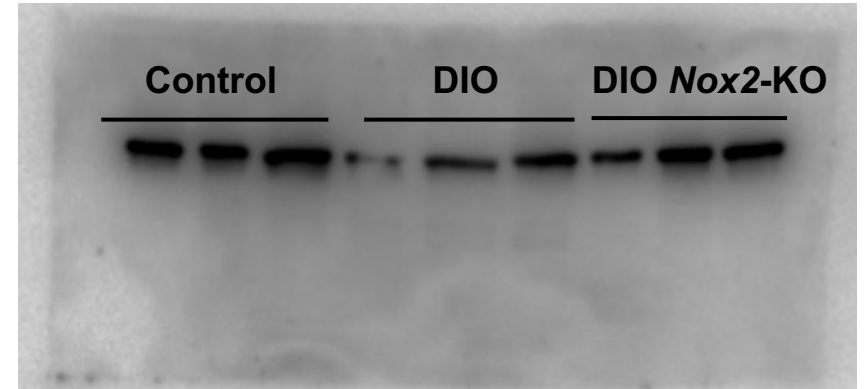
Red box refers to blot used in figure

# Unedited Figure S9H- Ppar $\alpha$ blots

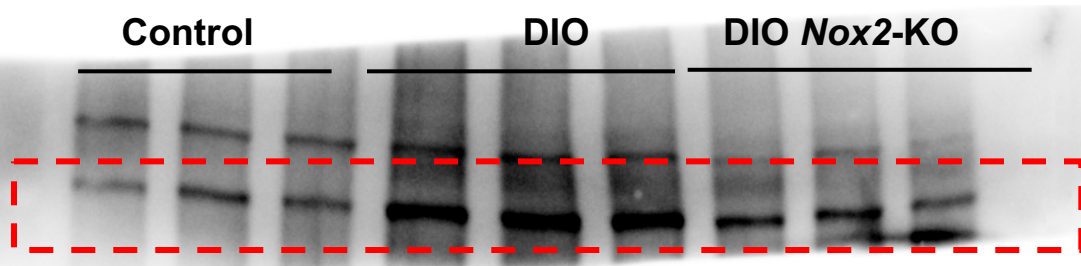
**Actin -1**



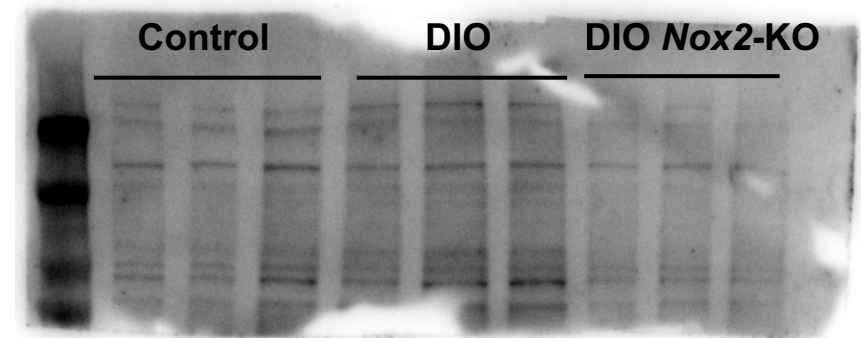
**Actin -2**



**Ppar $\alpha$ -1**



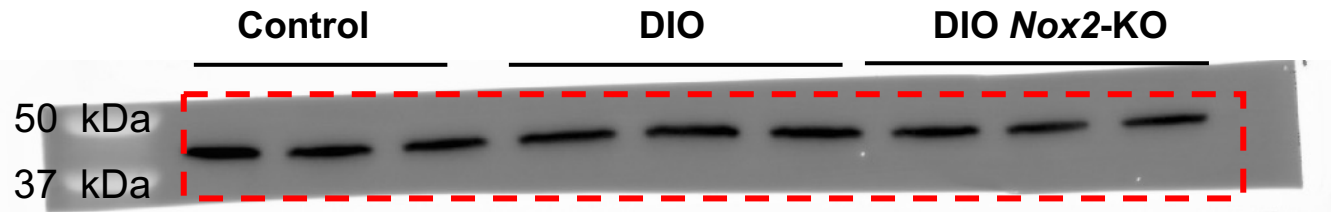
**Ppar $\alpha$ - 2**



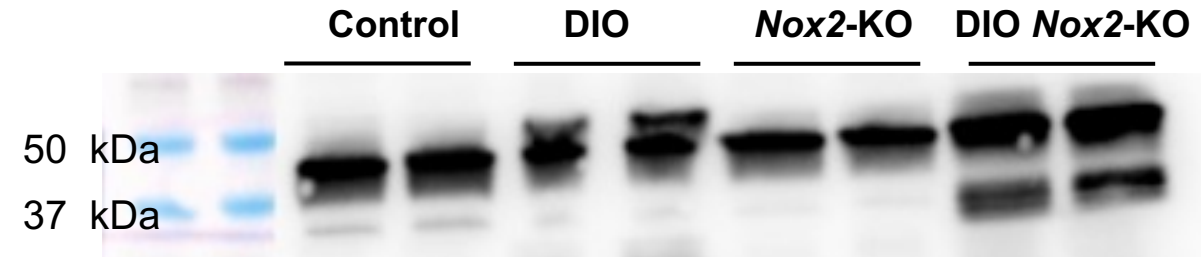
Red box refers to blot used in figure

# Unedited Figure S9I- Fabp3 blots

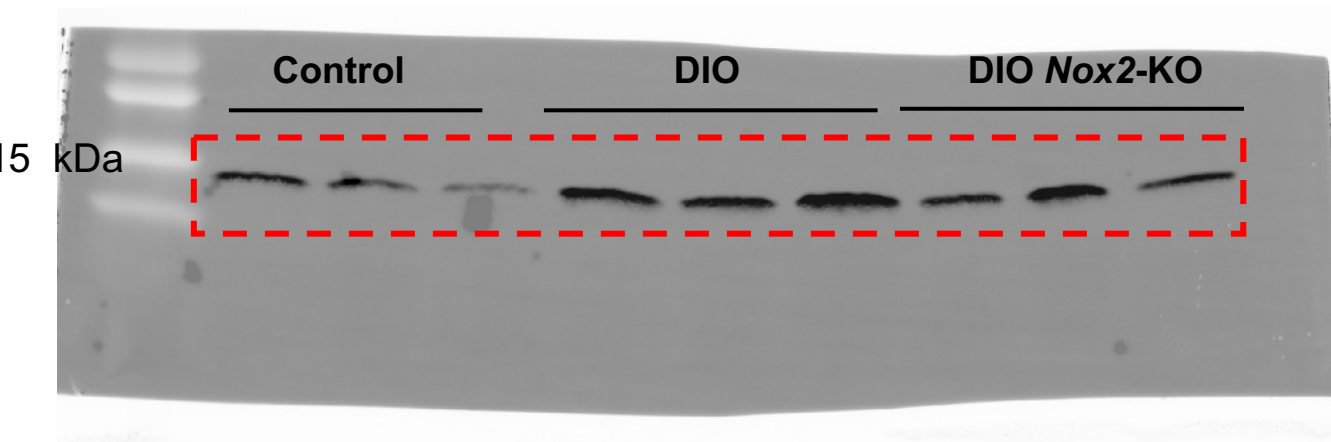
## Actin -1



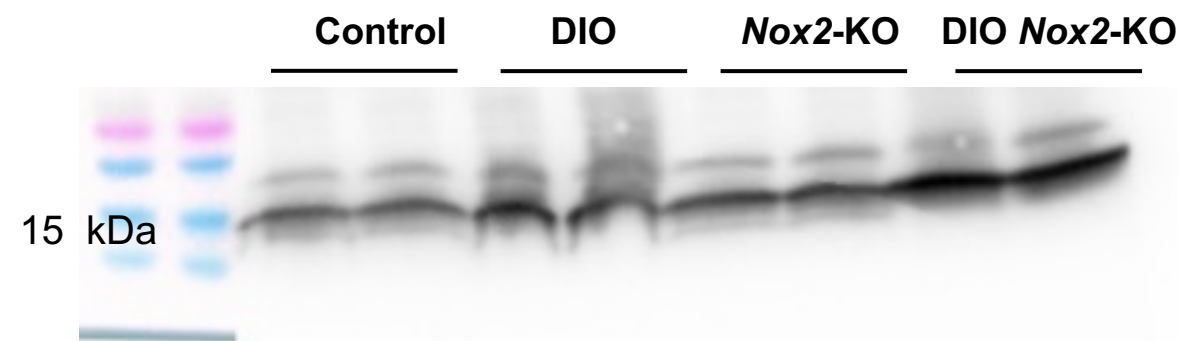
## Actin -2



## Fabp3-1



## Fabp3- 2



Red box refers to blot used in figure