

**SIRT3 deficiency-induced mitochondrial dysfunction and inflammasome formation  
in the brain**

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**Running title:** Brain mitochondrial dysfunction in Sirt3<sup>-/-</sup> mice

**Key words:** Sirt3, western diet, protein lysine acetylation, acetylome analysis, mitochondrial dysfunction, inflammasome, microglia and neuroinflammation

Figure 2a. VDAC kDa

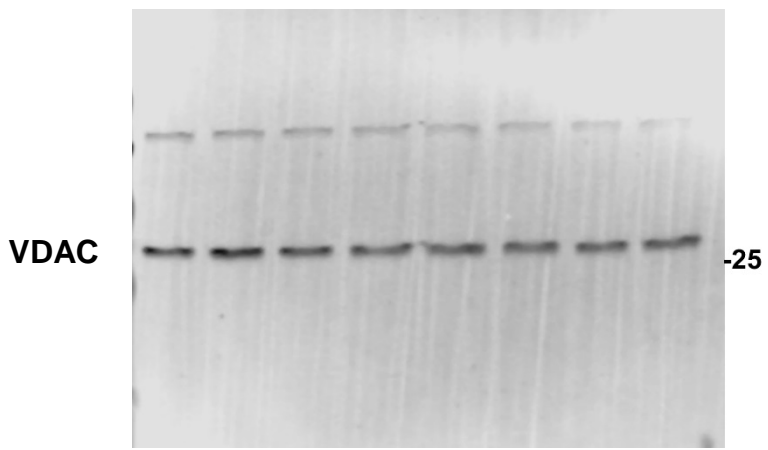


Figure 2c. SIRT1 kDa

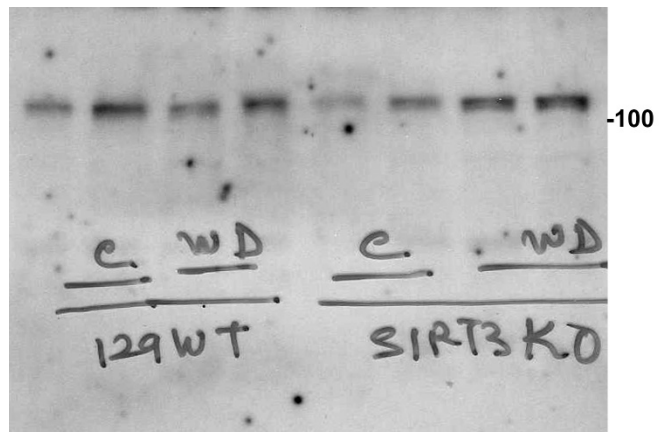


Figure 2c. SIRT3 kDa

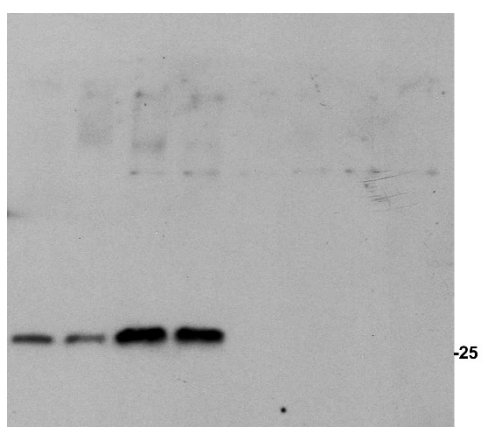


Figure 2c Ac-p65 kDa

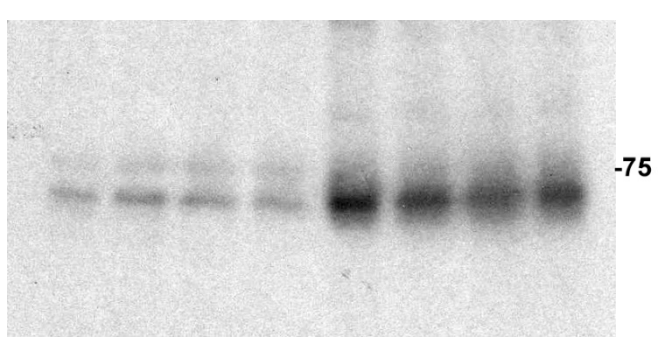


Figure 2c p65 kDa

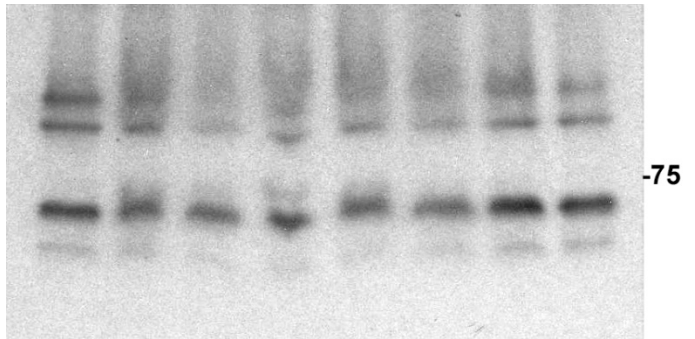


Figure 2c. SIRT5 kDa

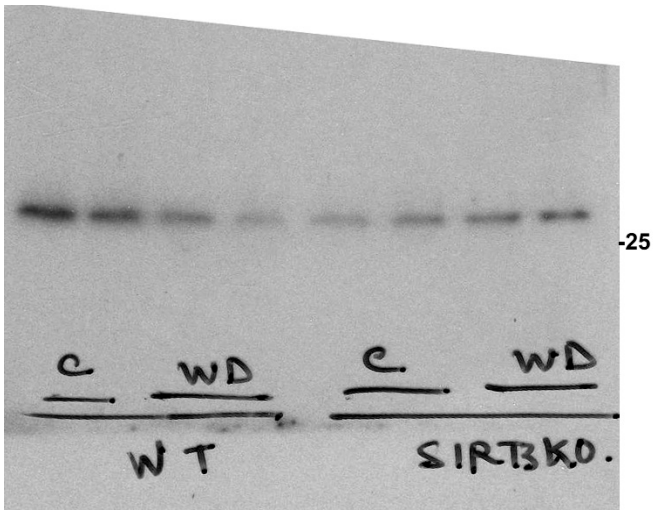


Figure 2c.  $\beta$  actin kDa

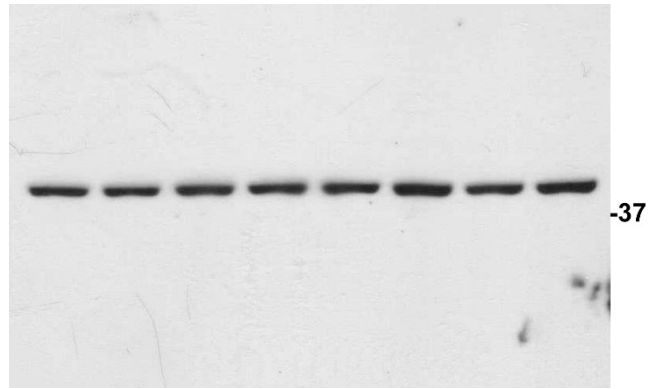


Figure 4a. Mfn1 kDa

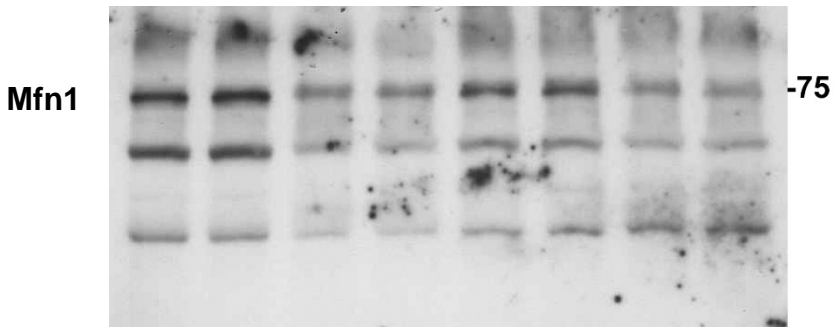


Figure 4a. Mfn2 kDa

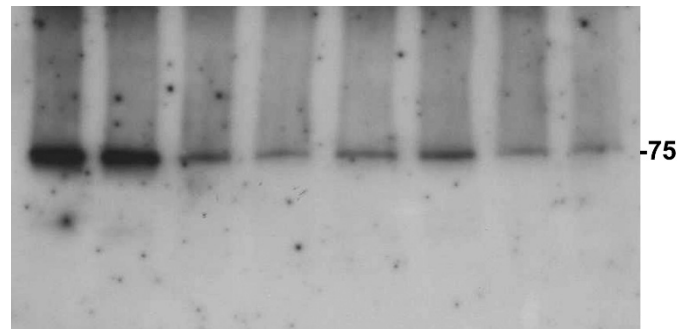


Figure 4a. Drp1 kDa

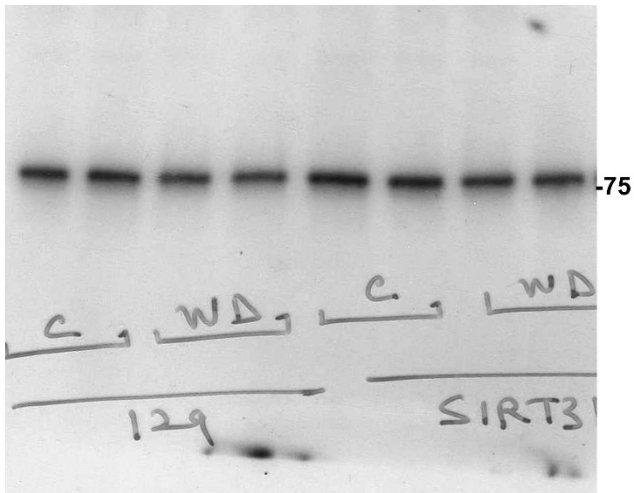


Figure 4a. Ac-SOD2 kDa

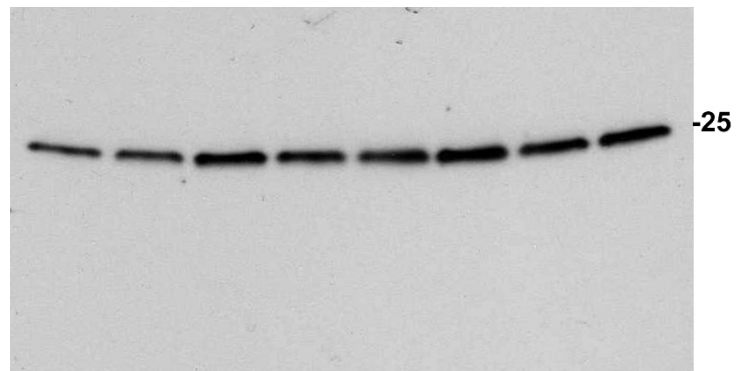


Figure 4a.

VDAC

kDa

VDAC

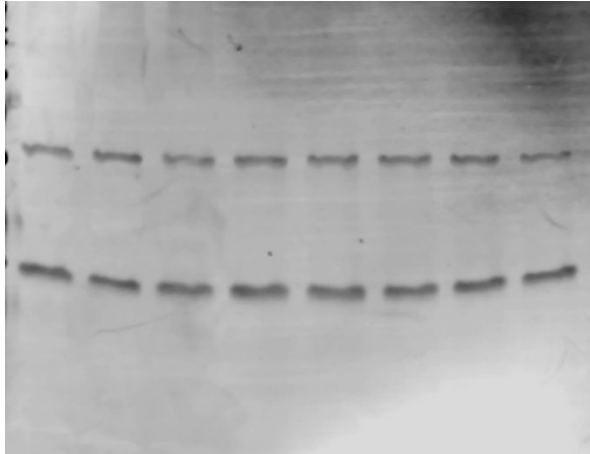


Figure 6a. Mito complex (Light exposure)

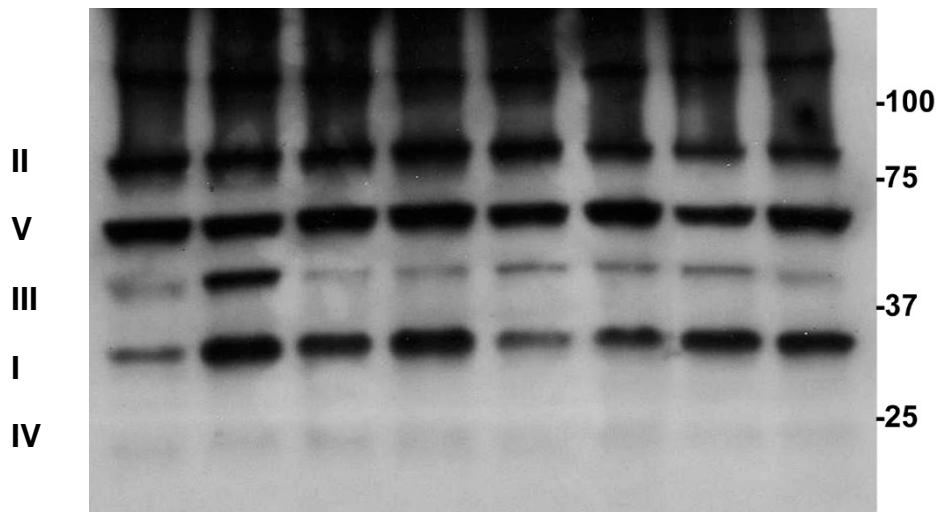


Figure 6a. Mito complex (Dark exposure)

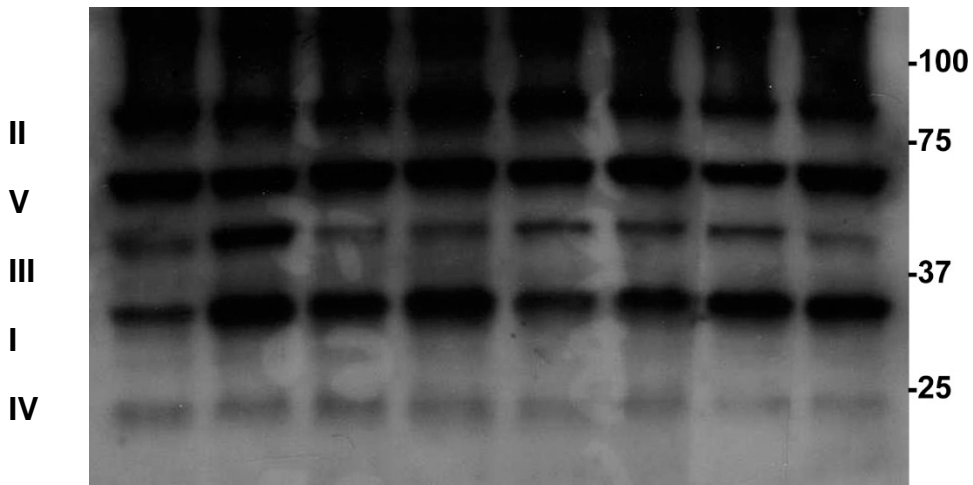


Figure 6a.

VDAC

kDa

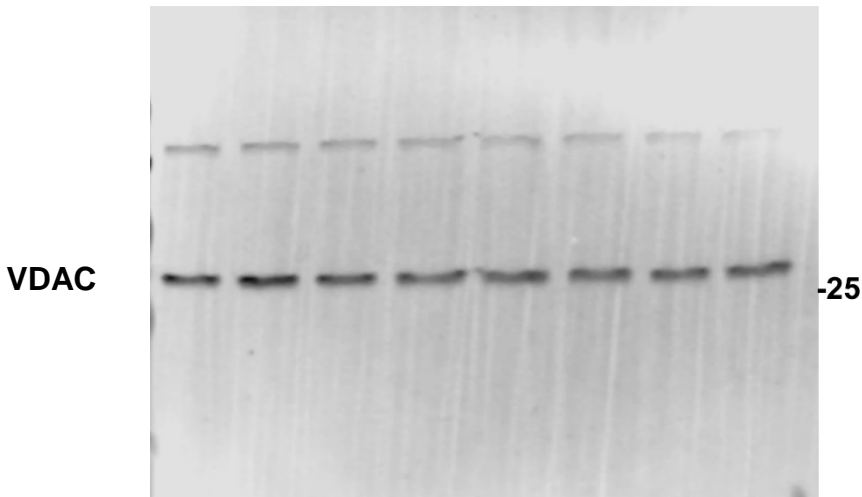


Figure 7a.  $\beta$  actin kDa

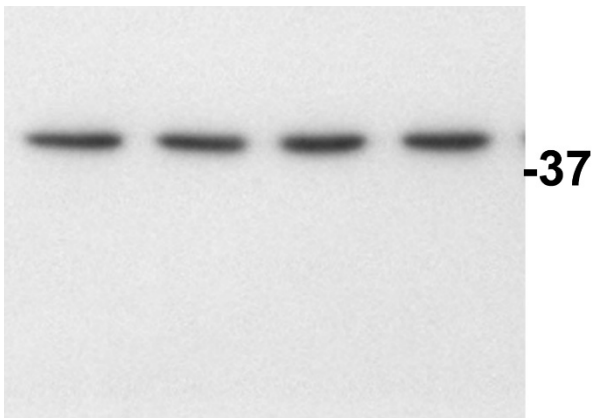


Figure 8d. I $\kappa$ B $\alpha$  kDa

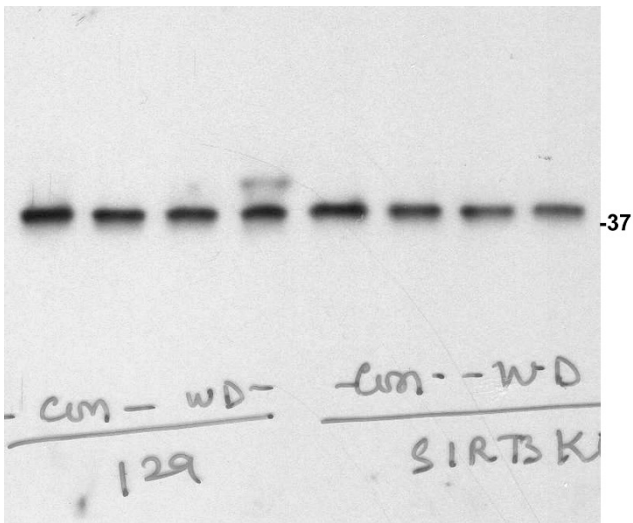


Figure 8d.  $\beta$  actin kDa

