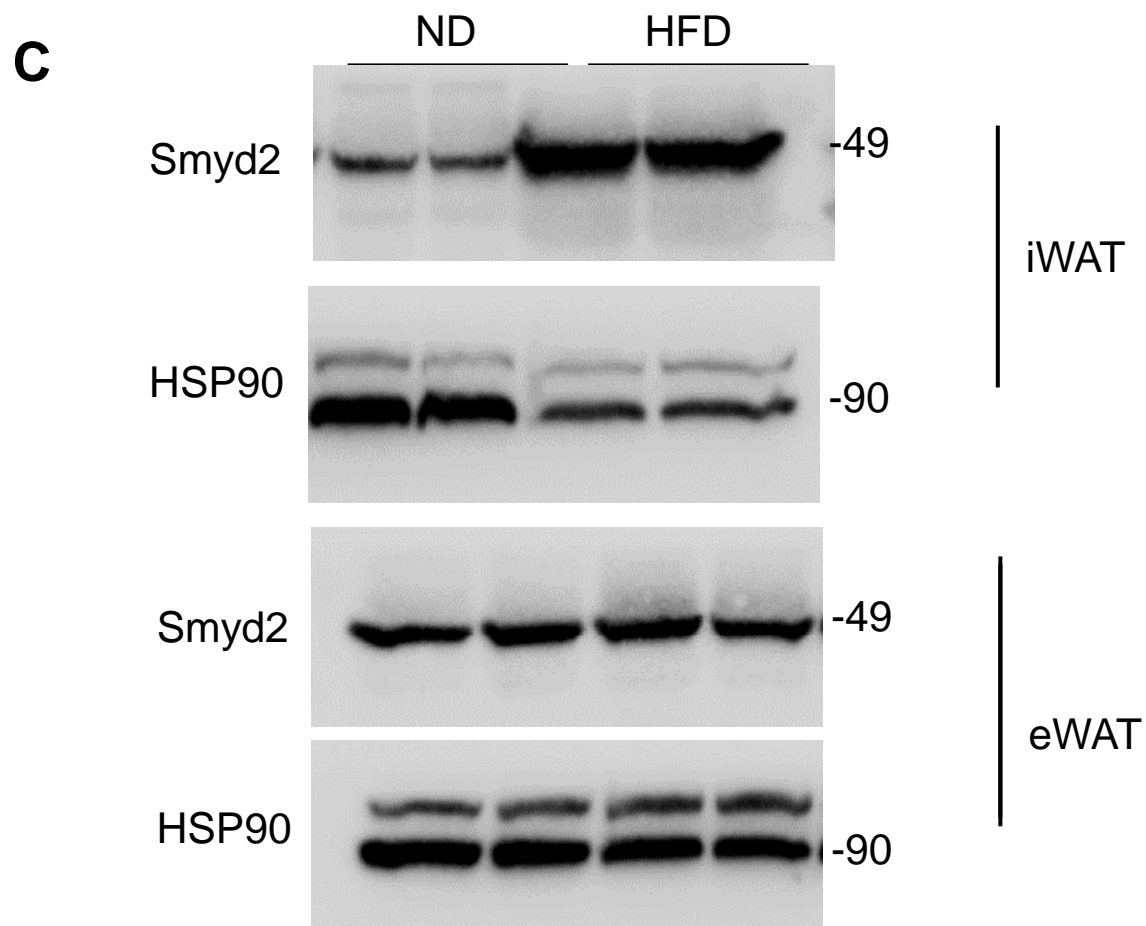
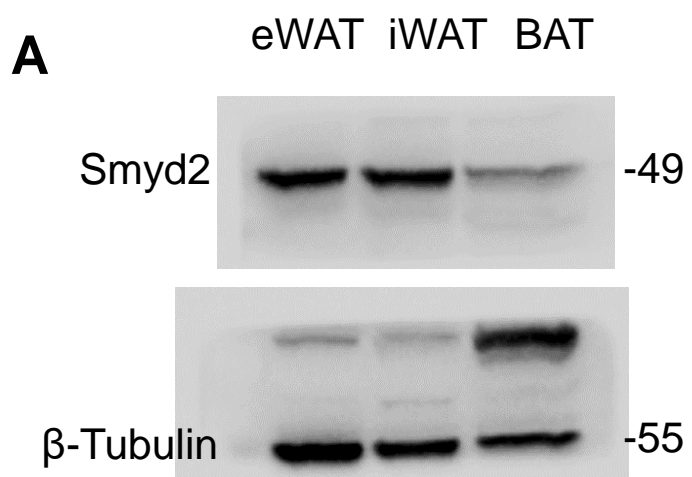
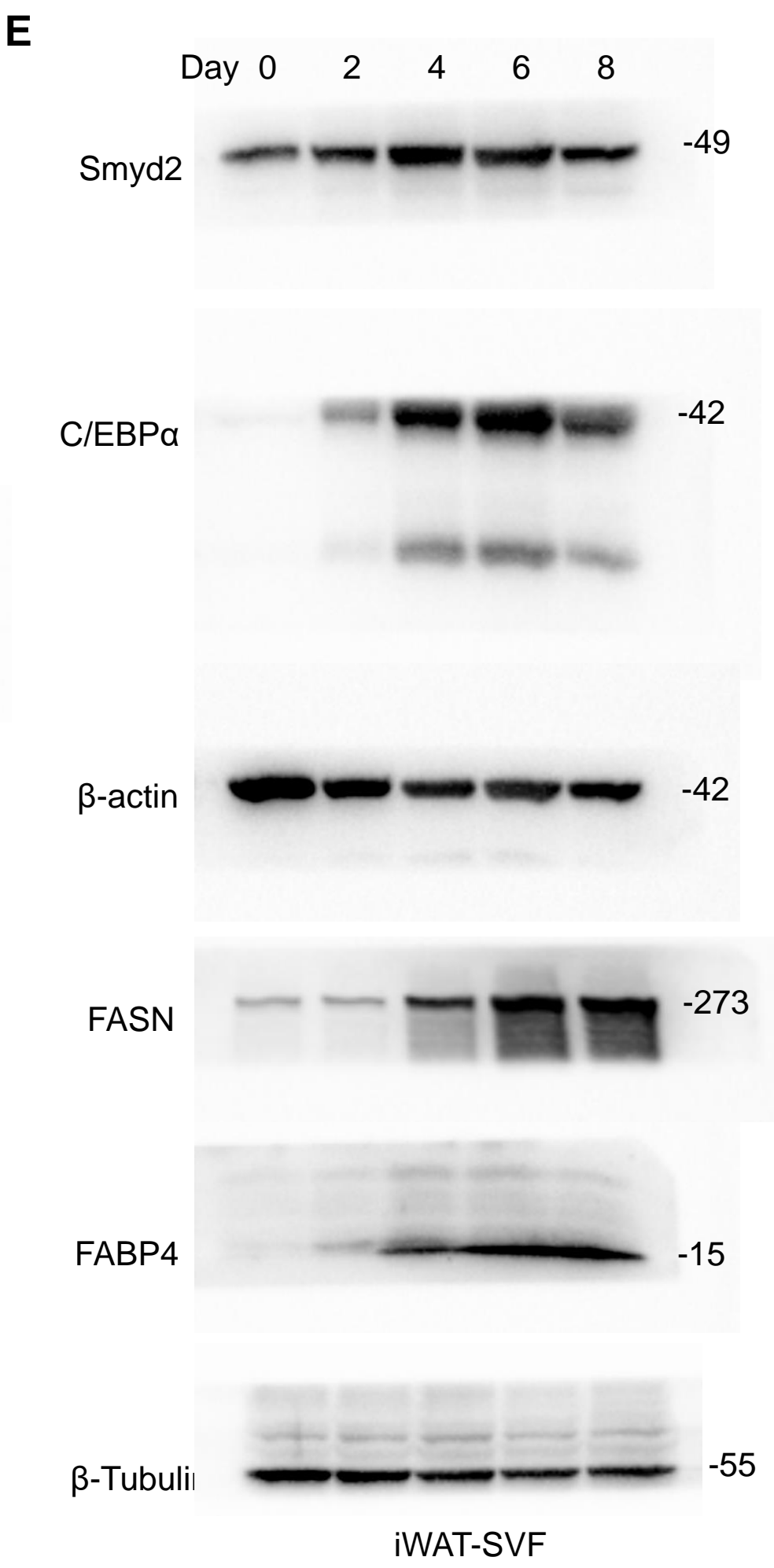
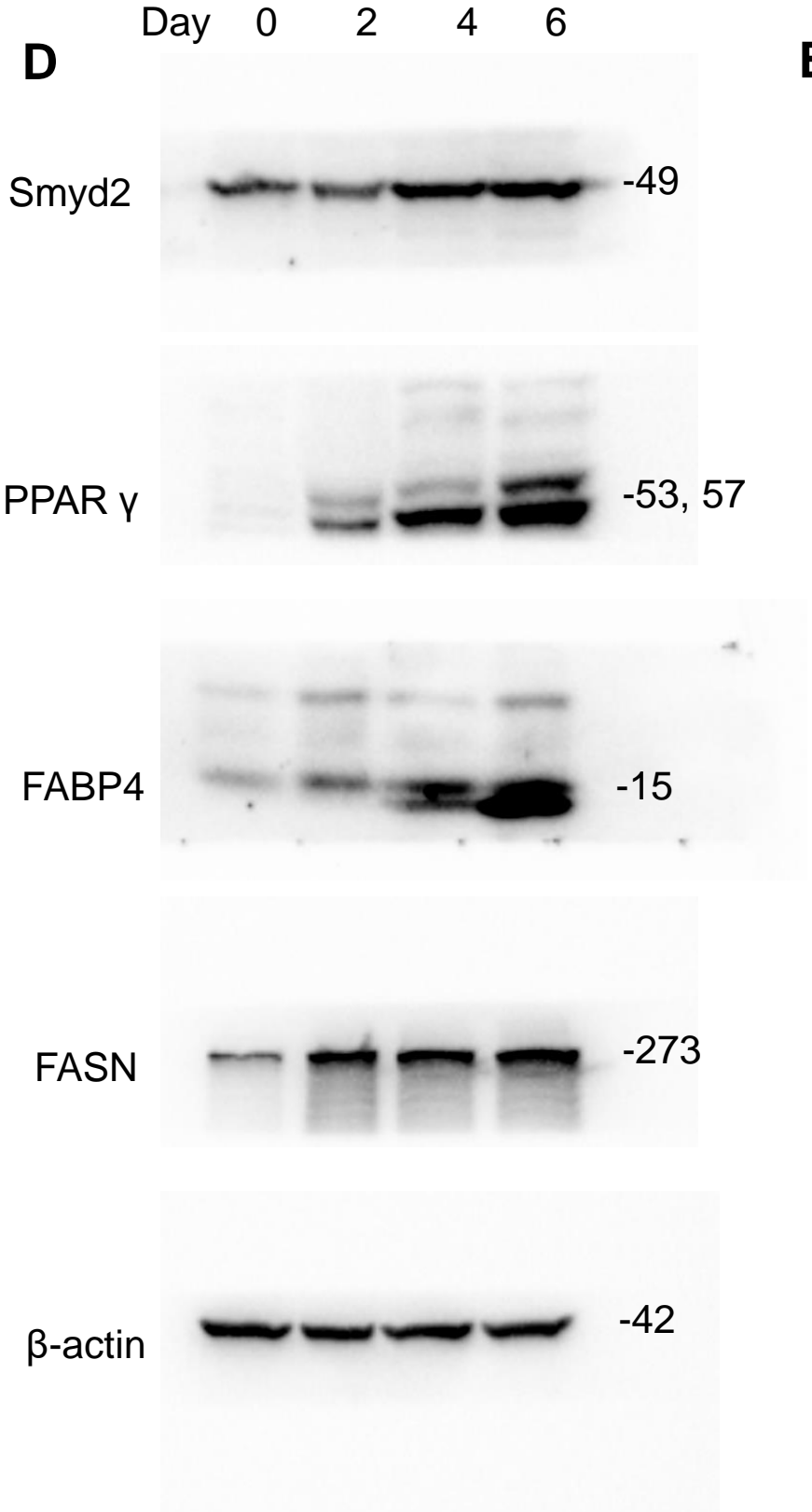


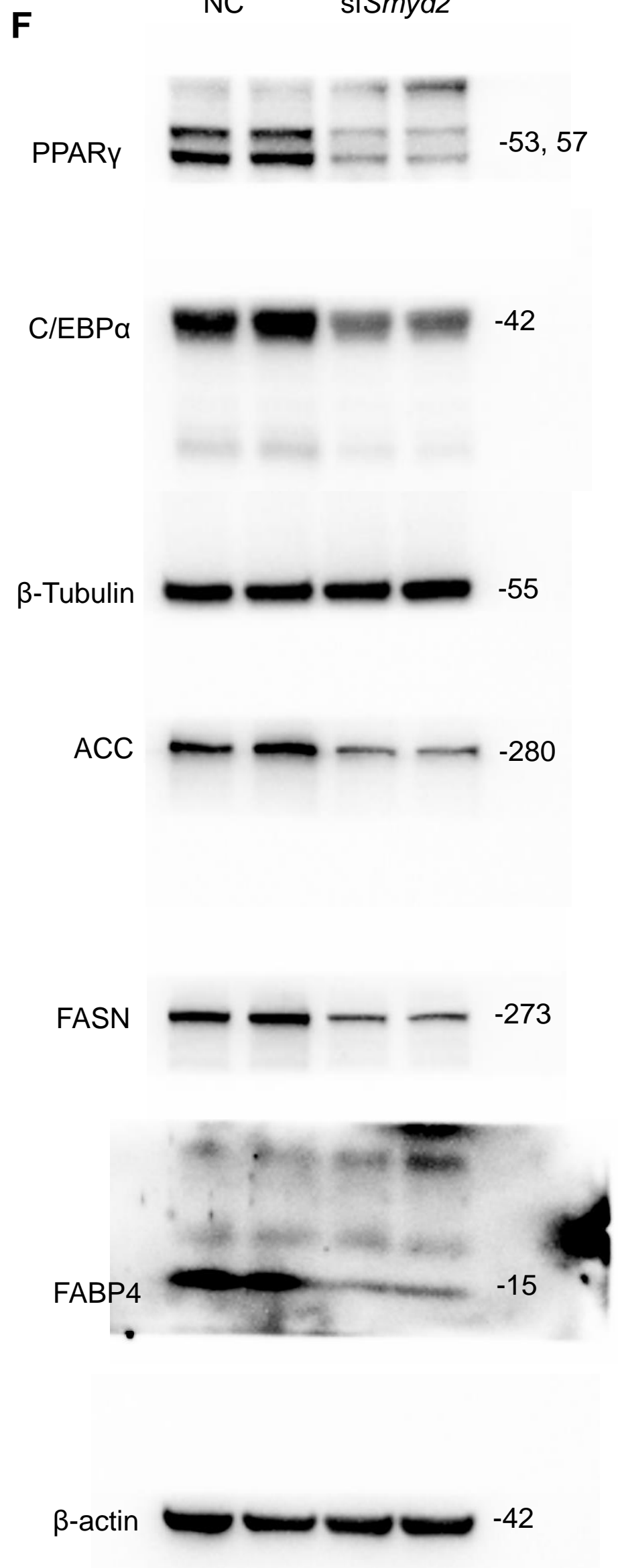
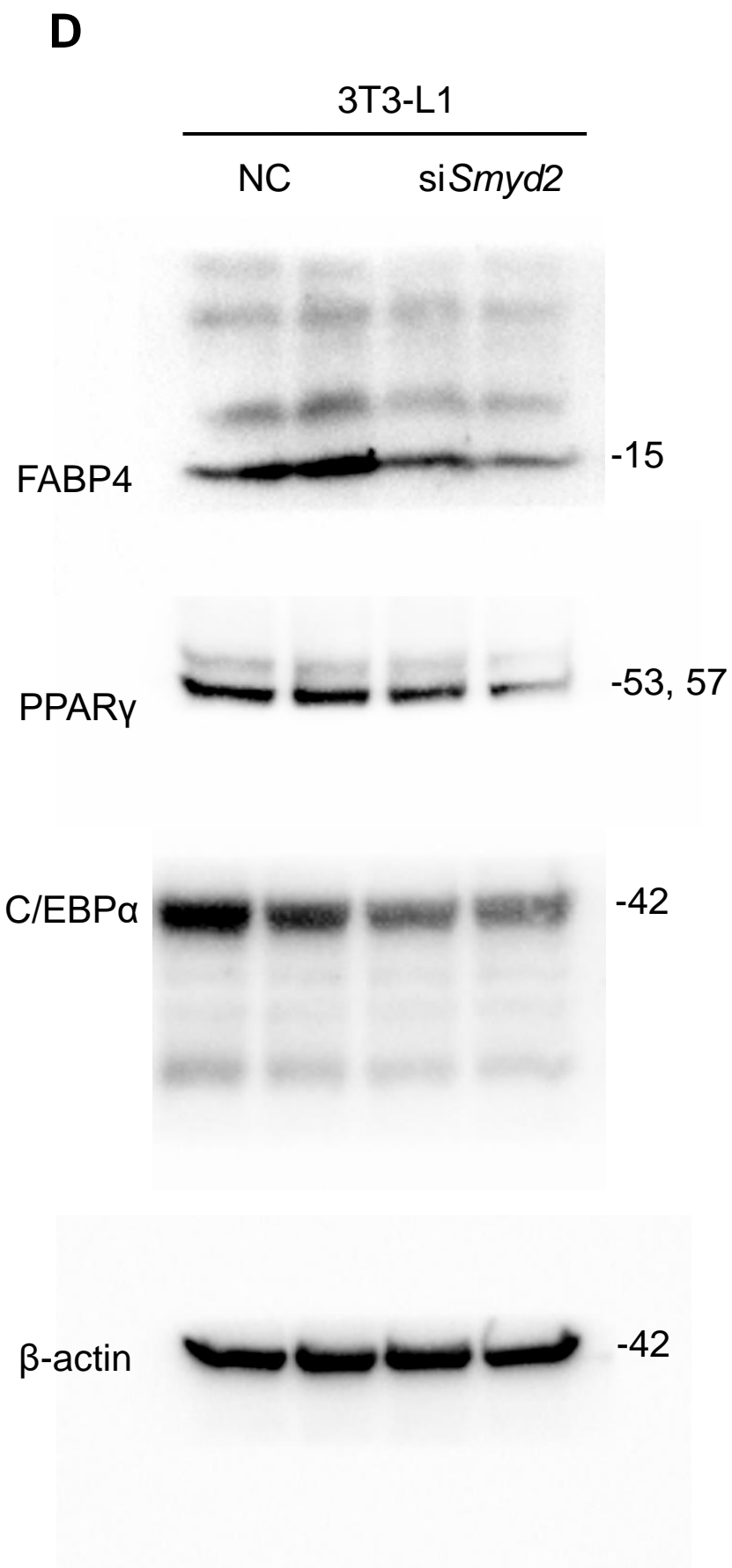
# Figure 1



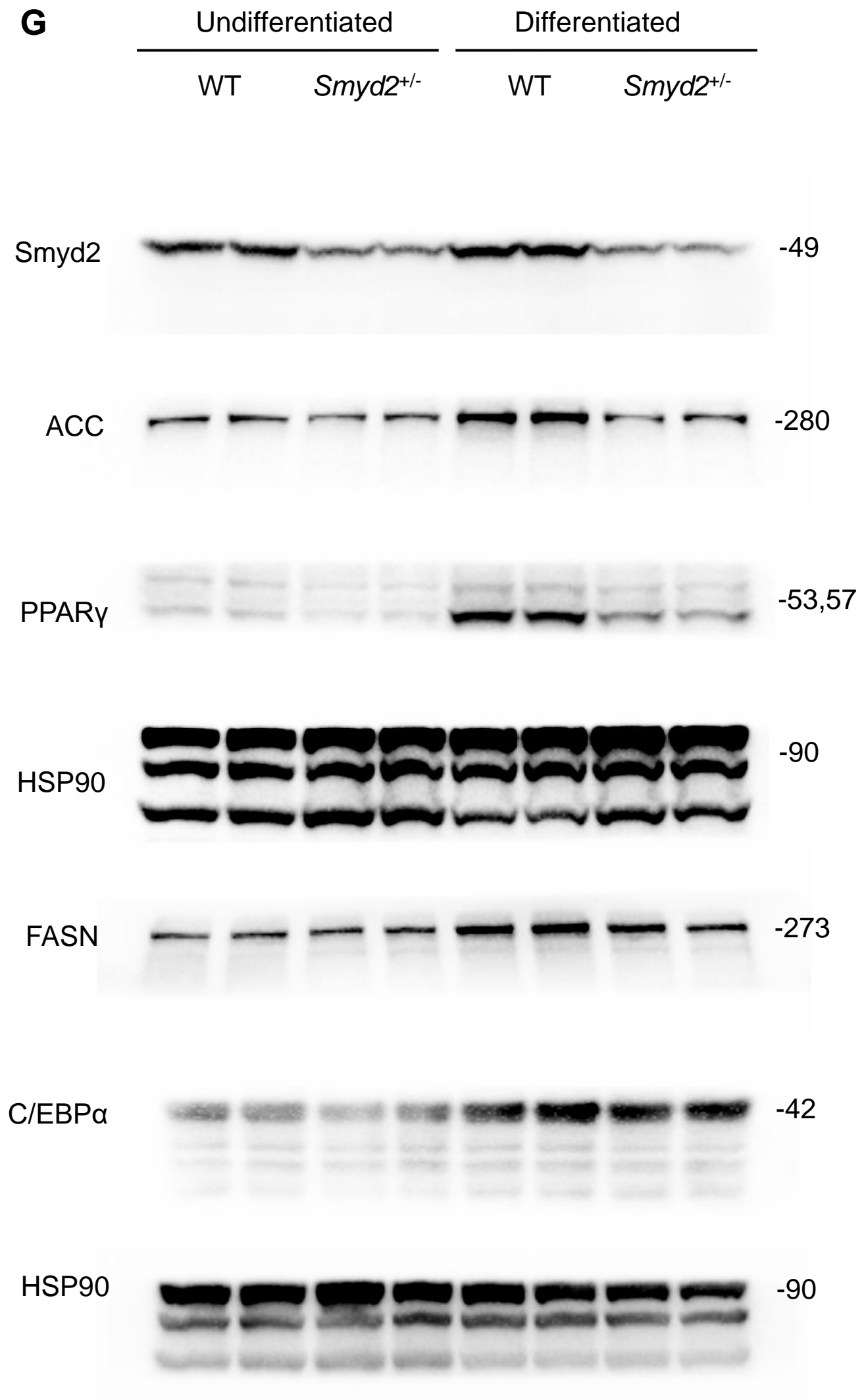
**Figure 2**



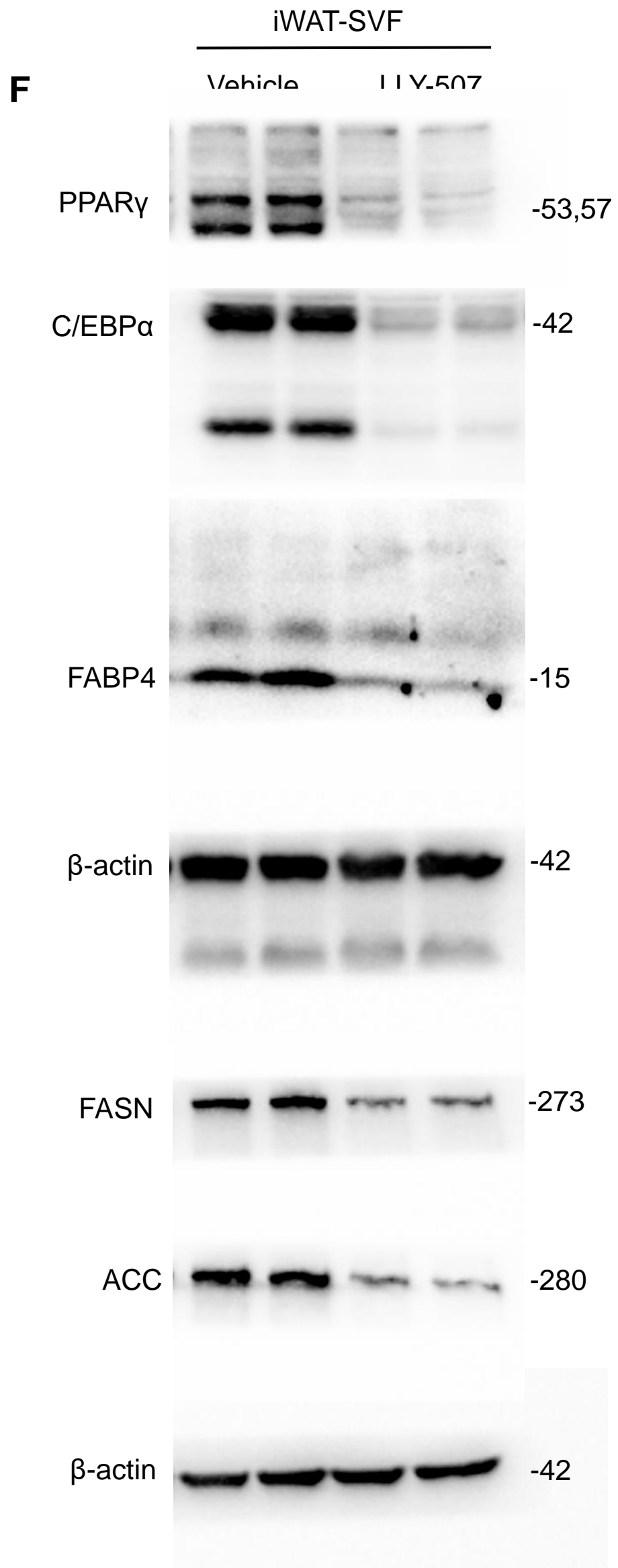
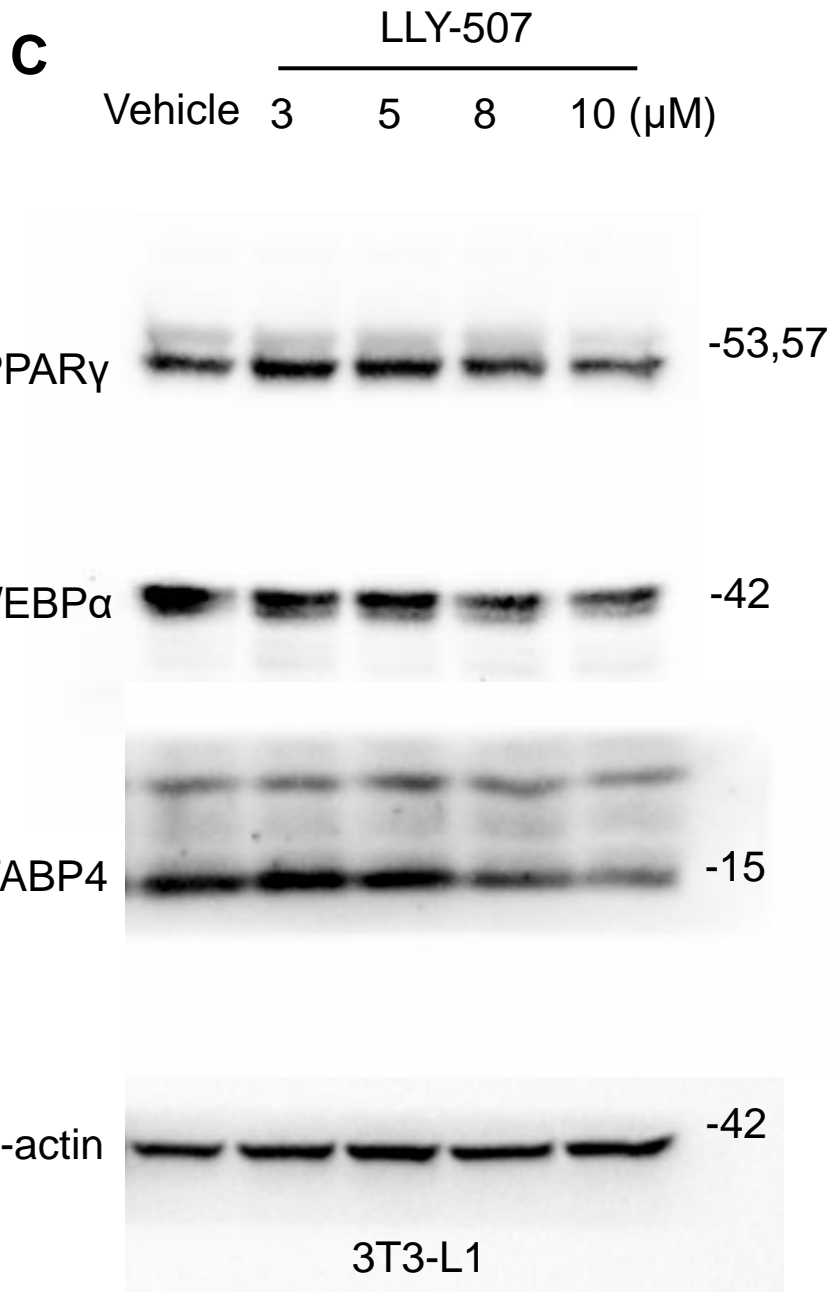
**Figure 3**



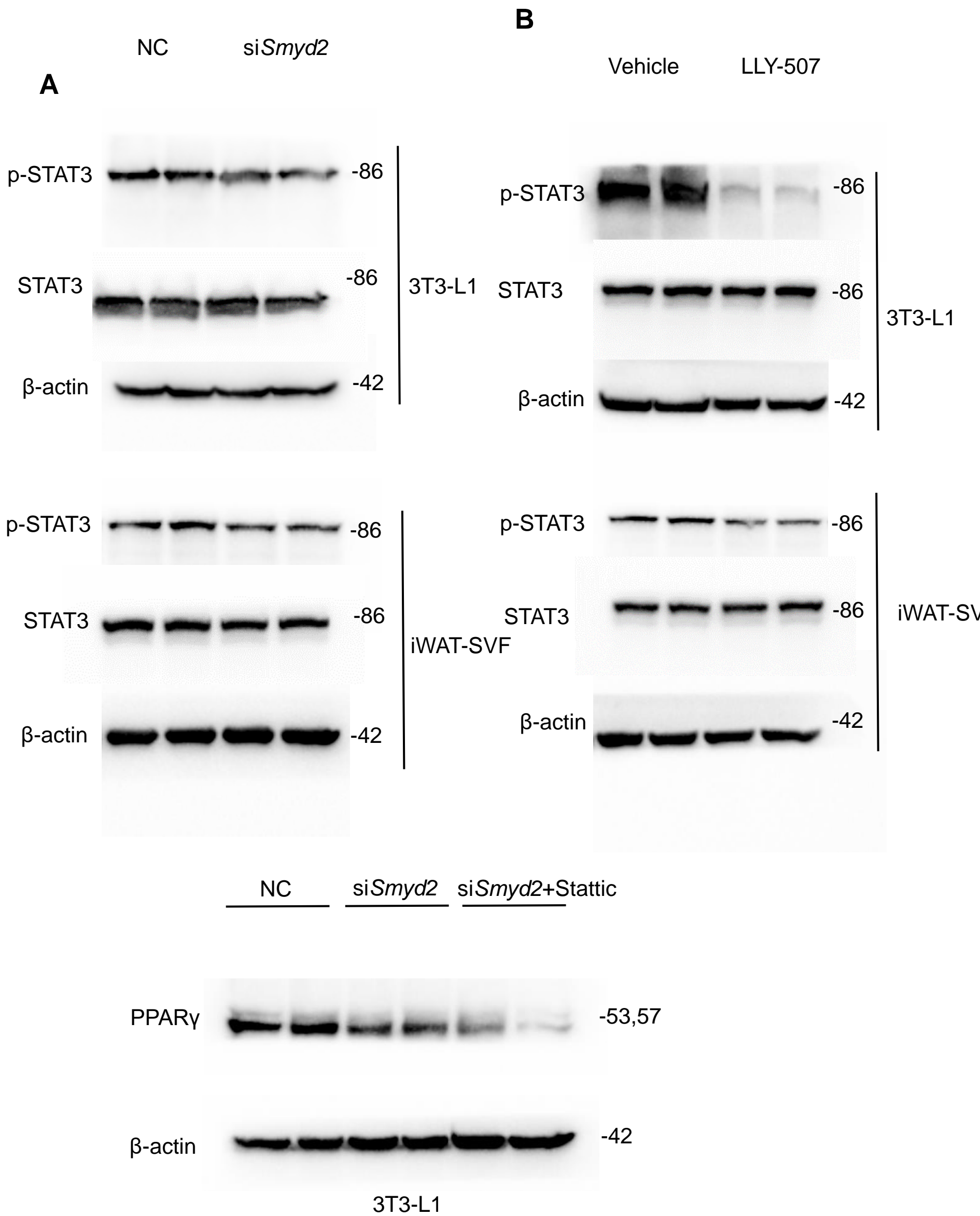
**Figure 3**



**Figure 4**

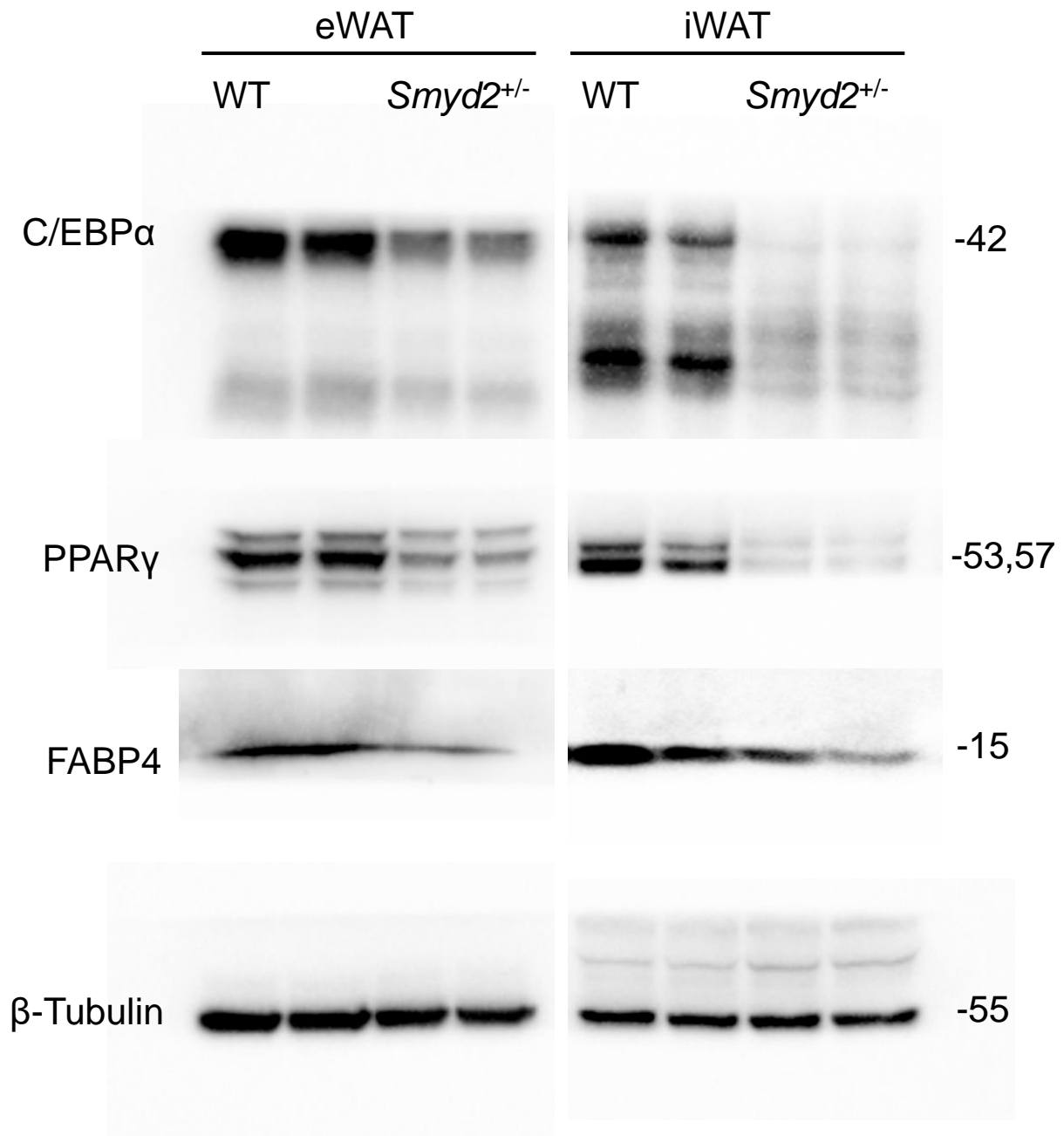


**Figure 5**

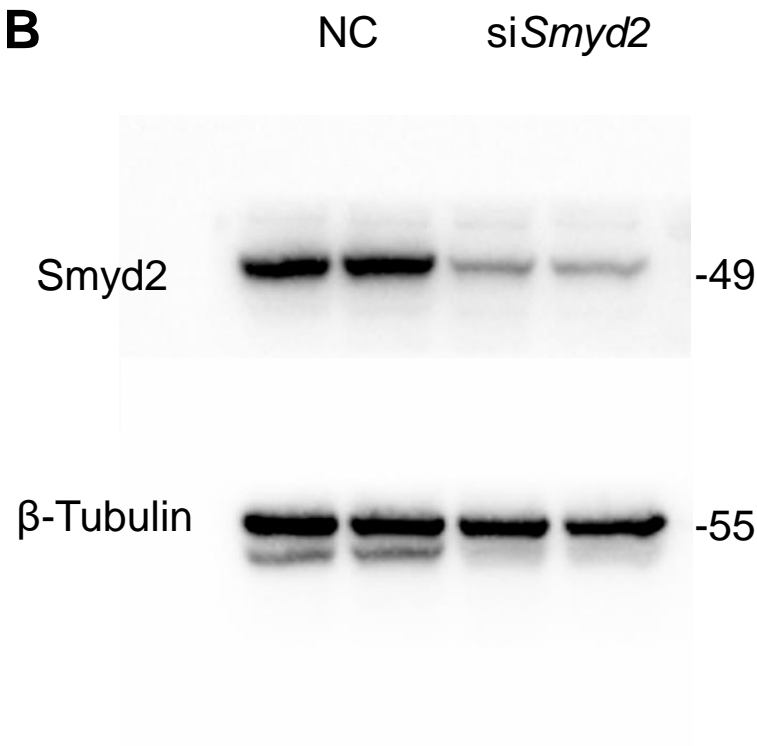


**Figure 6**

**I**

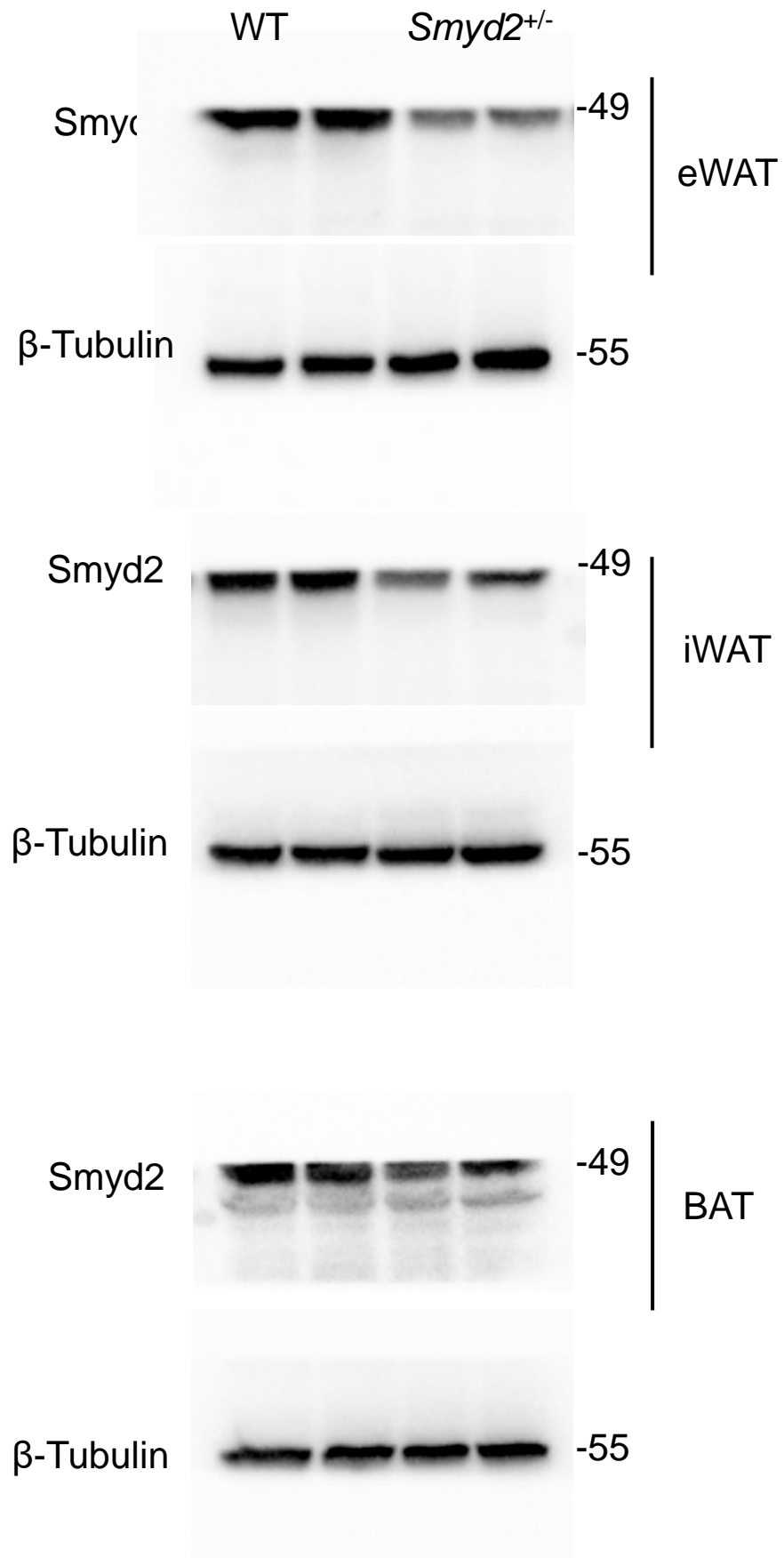


# Figure S1





**Figure S2**



# Figure S3

E

HFD-eWAT

WT

*Smyd2*<sup>+/-</sup>

Smy

-49

PPAR $\gamma$

-53,57

C/EBP $\alpha$

-42

FABP4

-15

HSP90

-90

HFD-iWAT

WT

*Smyd2*<sup>+/-</sup>

Smyd2

-49

PPAR $\gamma$

-53,57

C/EBP $\alpha$

-42

FABP4

-15

HSP90

-90

HFD-BAT

WT

*Smyd2*<sup>+/-</sup>

Smyd2

-49

PPAR $\gamma$

-53,57

HFD-BAT

WT

*Smyd2*<sup>+/-</sup>

C/EBP $\alpha$

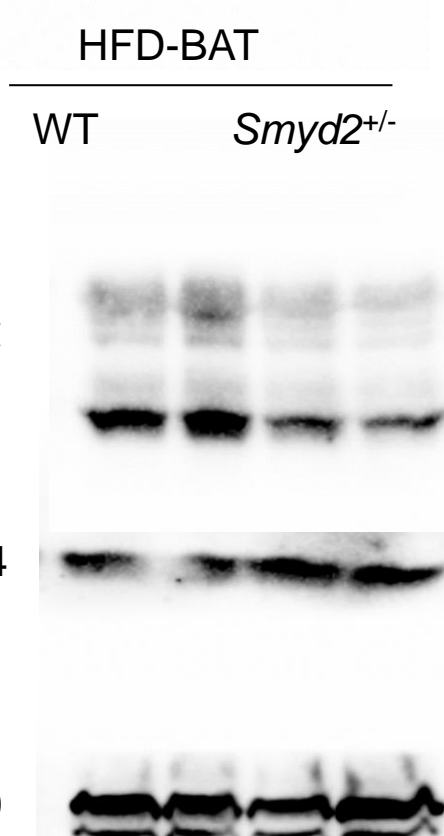
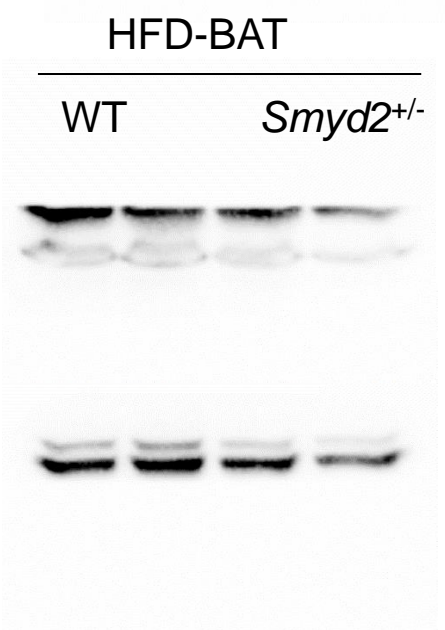
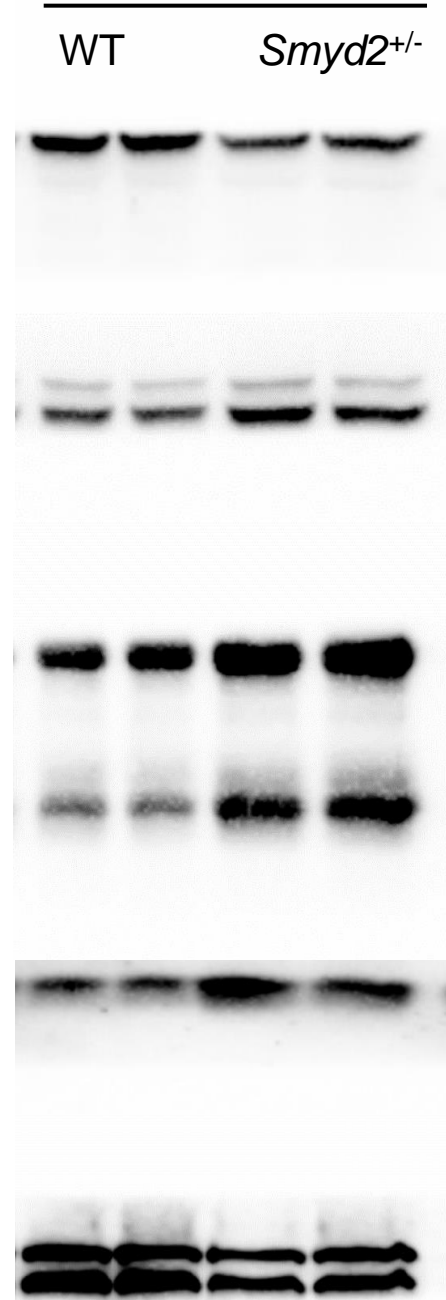
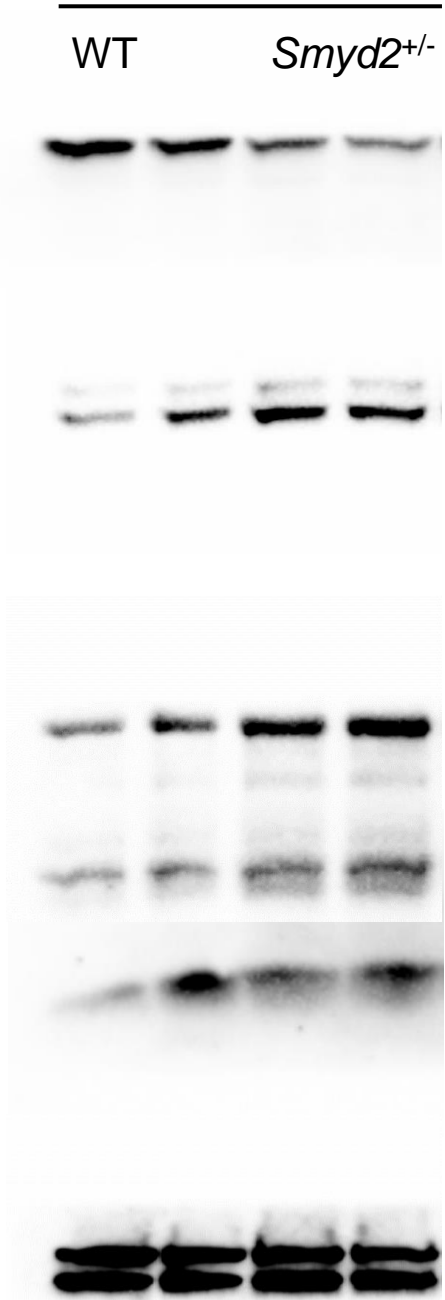
-42

FABP4

-15

HSP90

-90



**Figure S4**

