

Cold-Induction Of Afadin In Brown Fat Supports Its Thermogenic Capacity

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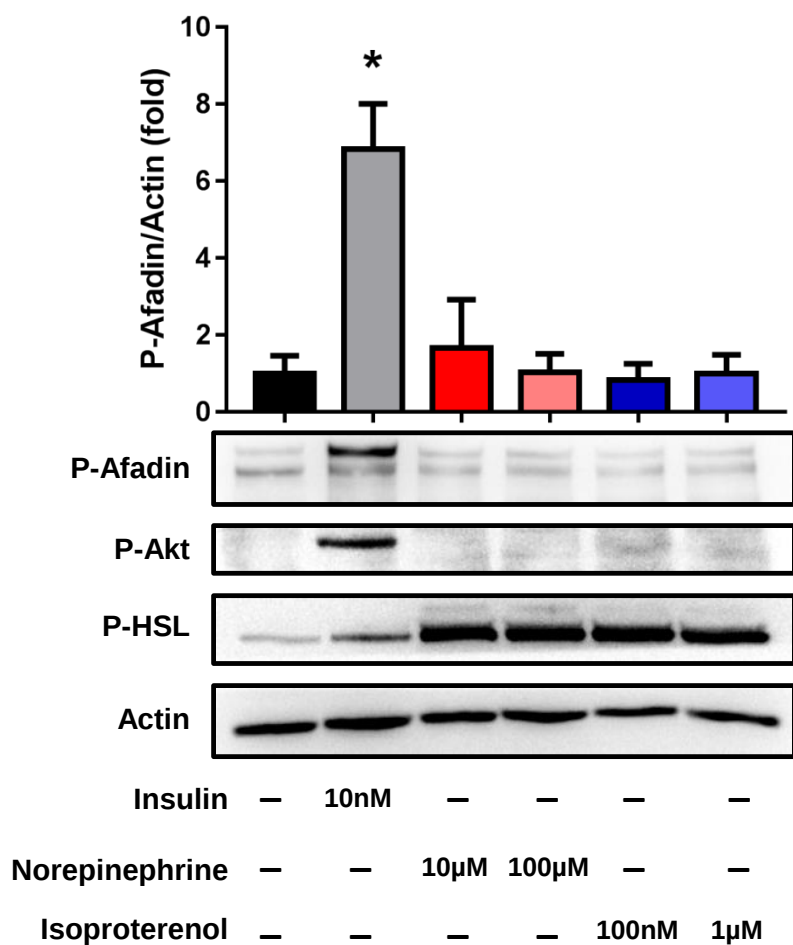
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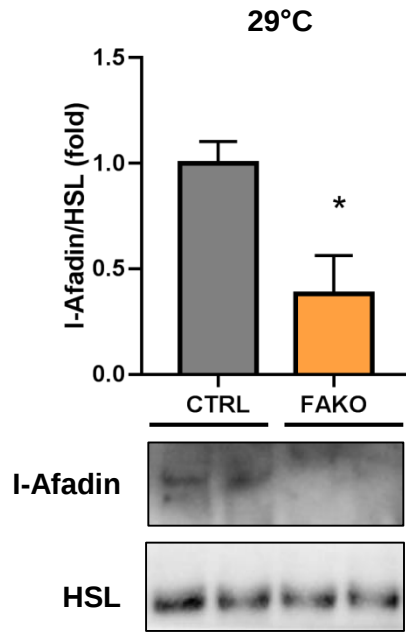
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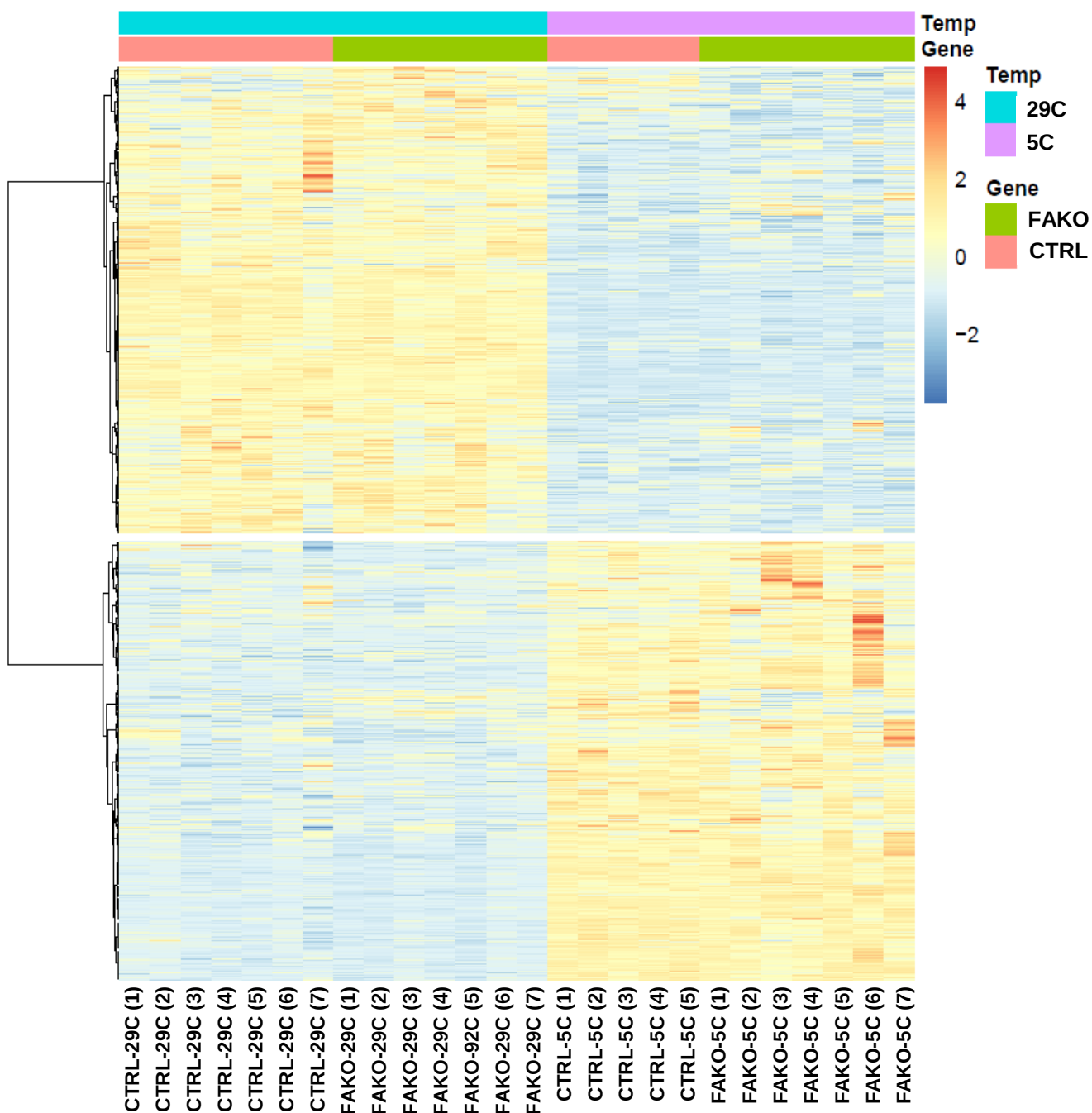
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Supplementary Figure 1: Norepinephrine and Isoproterenol stimulation do not induce S1795 phosphorylation of Afadin. P-Afadin protein levels in mature adipocytes exposed to vehicle, insulin, norepinephrine or isoproterenol for 15 minutes. Representative blots are shown. N=4. Data are presented as means + SEM, *p<0.05



Supplementary Figure 2: BAT Afadin abundance at thermoneutrality. I-Afadin and HSL protein levels in fat-specific Afadin knock-out (FAKO) and control littermates (CTRL). Representative blots are shown. N=6. Data are presented as means + SEM, * $p < 0.05$



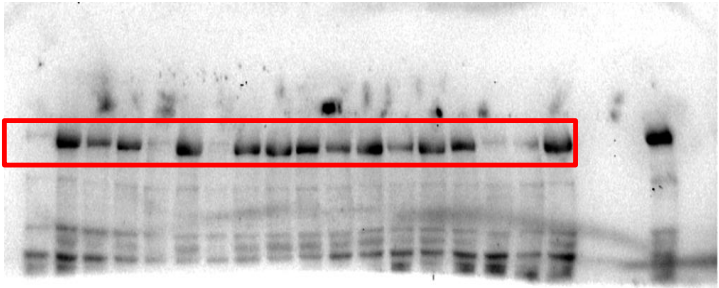
Supplementary Figure 3: Afadin deletion modulates the transcriptomic profile in BAT at thermoneutrality and in response to cold. Male fat-specific Afadin knock-out (FAKO) and control littermates (CTRL) were housed at thermoneutrality (29°C) for 2 weeks followed by 5°C cold-exposure for 6 hours and BAT was harvested and RNA-sequencing was performed. Heatmap showing hierarchical clustering of all differentially expressed genes. Z-scores are calculated for each gene. Hierarchical clustering was performed using “ward.D2” method using Pearson distance.

Supplementary information

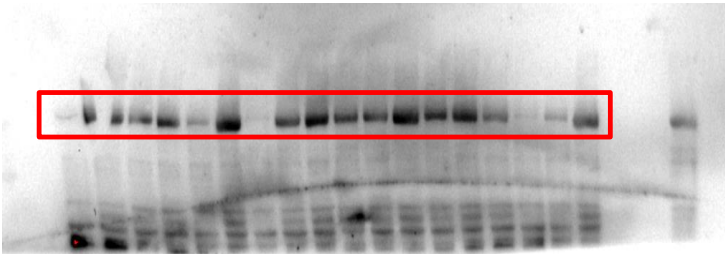
full-length blots used to
generate the figures are
provided here

Figure 1 (a)

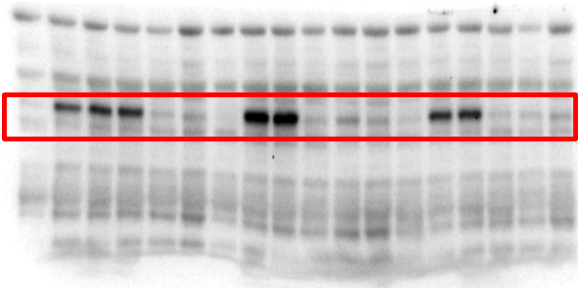
P-Afadin
(s1795)



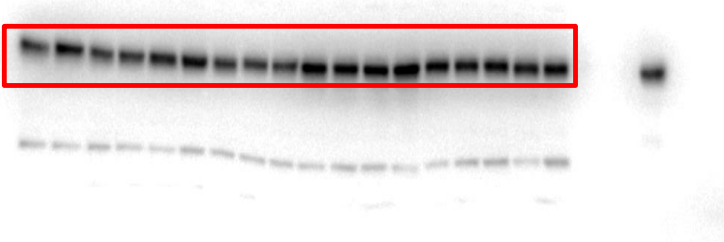
Afadin



P-Akt
(s473)



Akt



β -Actin

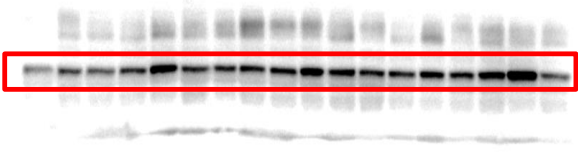


Figure 1(f)

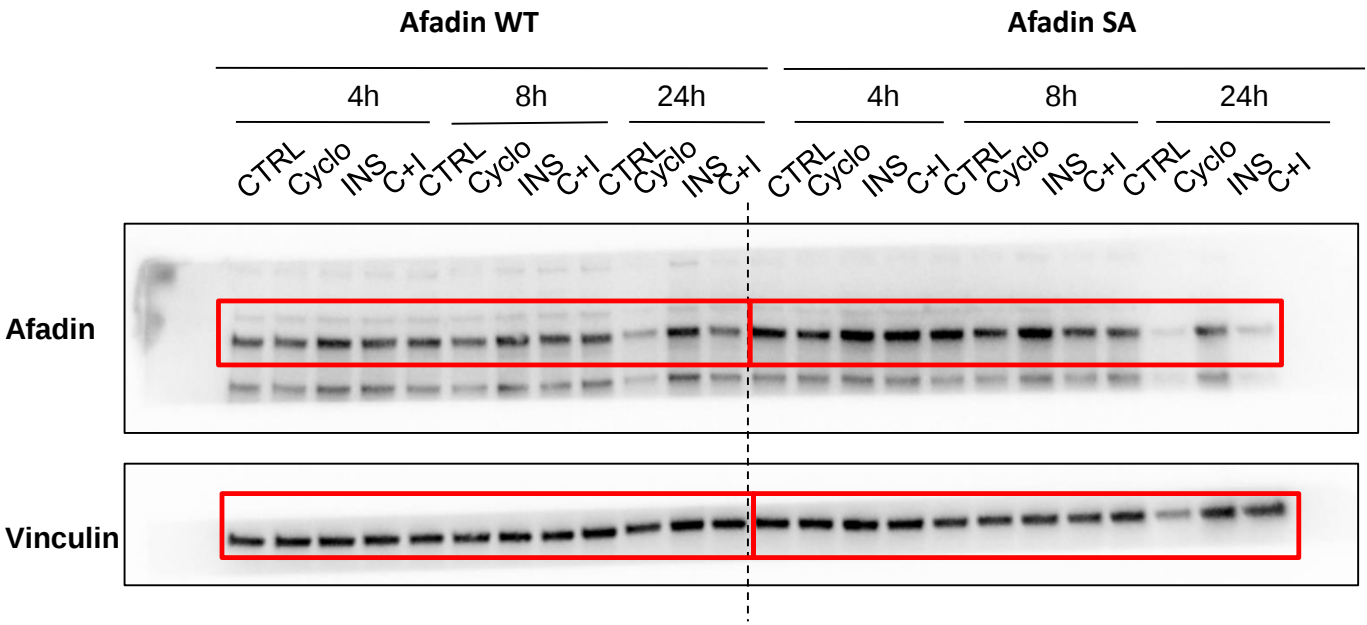


Figure 2(a)

Afadin



β -tubulin



Figure 2(l)

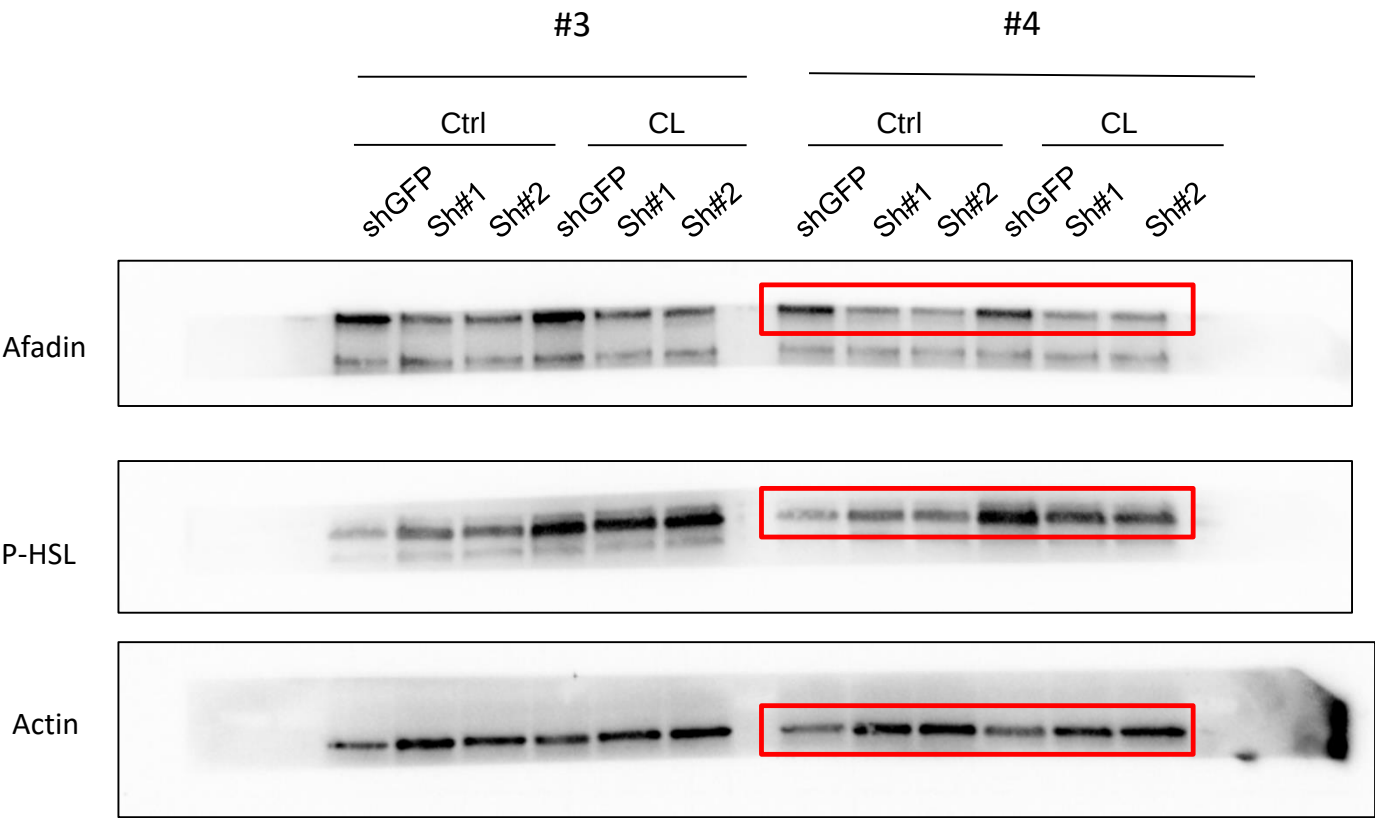
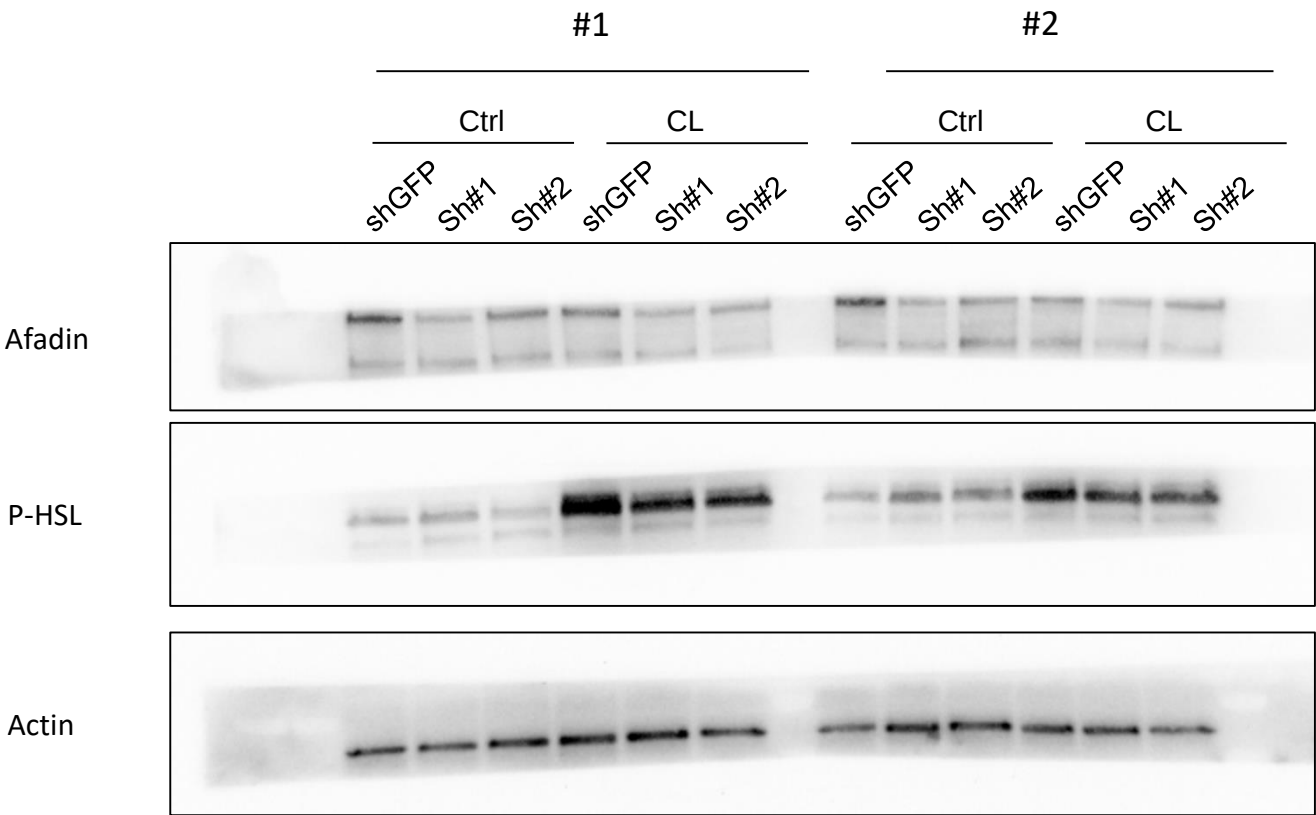
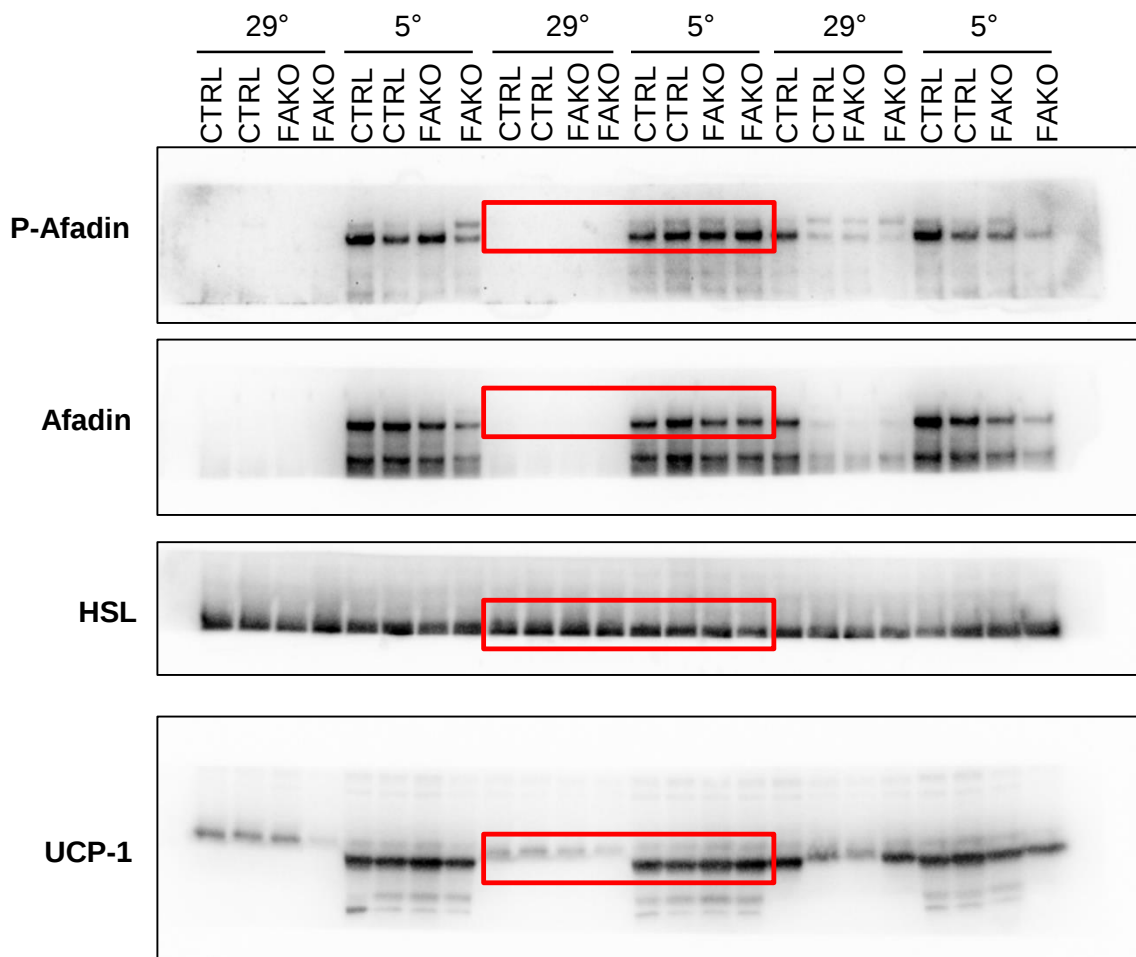
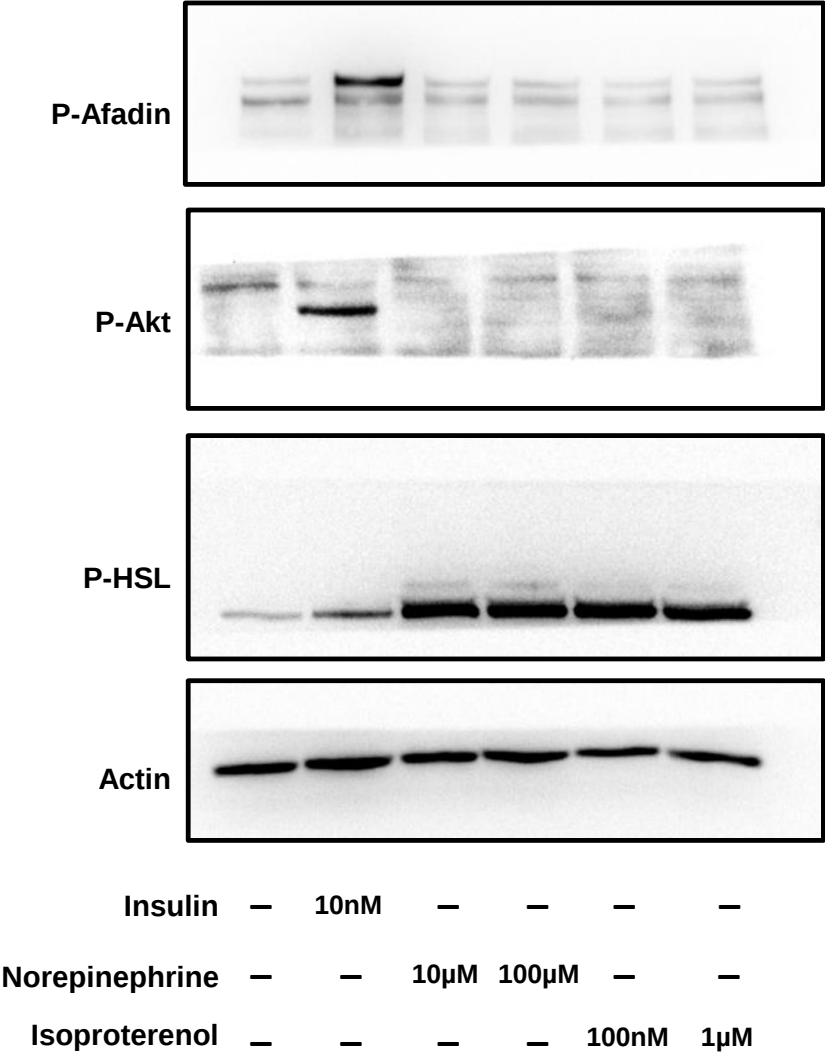


Figure 3(a)



Supplementary Figure 1



Supplementary Figure 2

