

Supplementary Information

Title: The histone deacetylase SIRT6 blocks myostatin expression and development of muscle atrophy

Authors: Sadhana A. Samant, Abhinav Kanwal, Vinodkumar Pillai, Riyue Bao and Mahesh P. Gupta

Figure S1

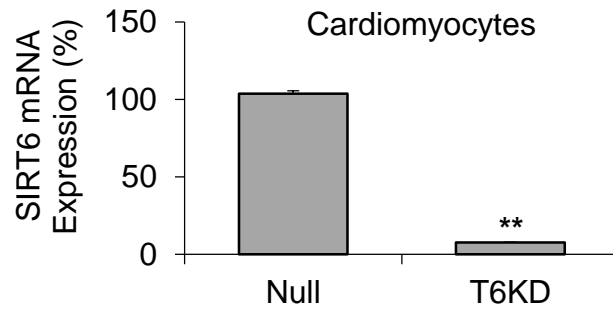
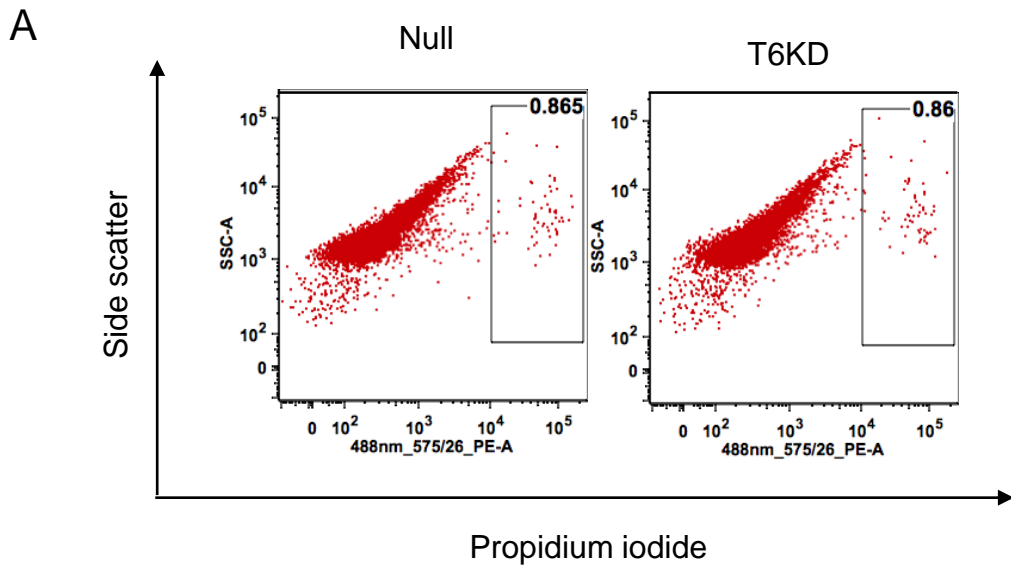
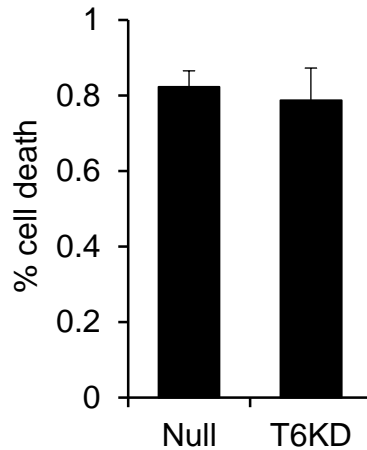


Figure S1: Validation of SIRT6 knockdown by qPCR in cardiomyocytes infected with Null or rat SIRT6-shRNA (T6KD) adenovirus. Bar graph represents mean \pm SEM for n=3 experiments, ** p<0.001.

Figure S2



B

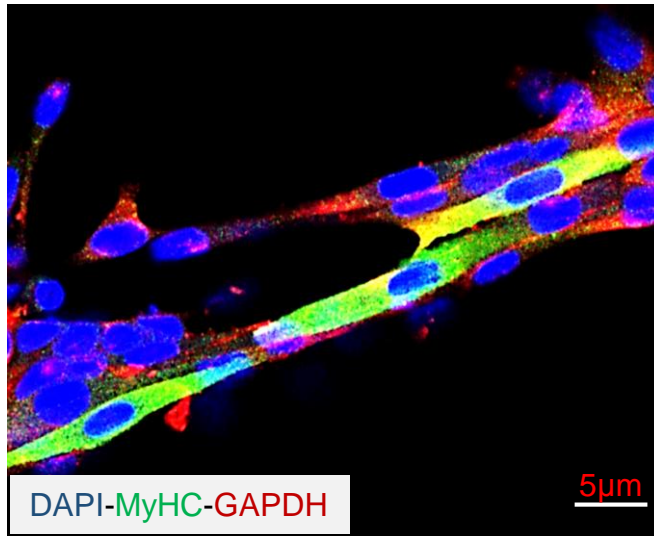


(A) Cardiomyocytes were infected with either Null or rat SIRT6-shRNA adenovirus (T6KD) and after 72 h of infection, cells were harvested and extent of apoptosis was measured by estimating the percentage of propidium iodide positive cells by FACS analysis. (B) Quantification of cell death in different groups of cells. All values are means \pm SEM; $n = 7$

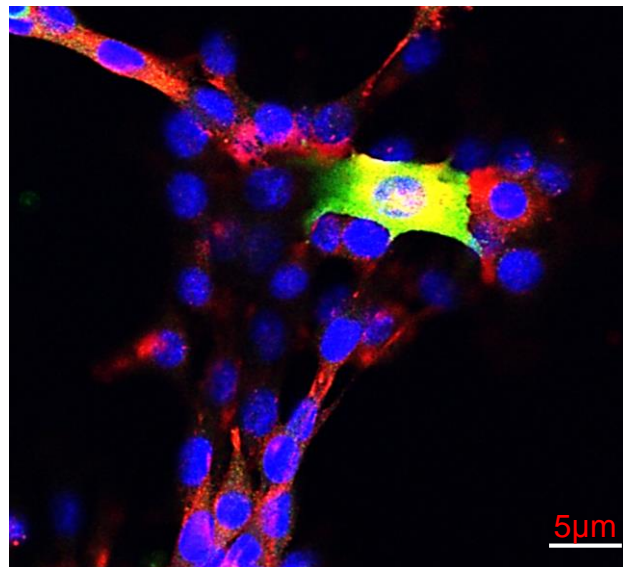
Figure S3

C2C12 Differentiation

CM from Null Adv.-infected



CM from T6KD Adv.-infected



Representative confocal images of differentiated C2C12 cells maintained in differentiation medium (DM) + CM from null or T6KD-adenovirus infected cardiomyocytes and immuno-stained for Myosin heavy chain (MF20) (Green) and GAPDH (Red). Nuclei were stained with DAPI.

Supplementary Figures of Original Blots

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Figure 1A

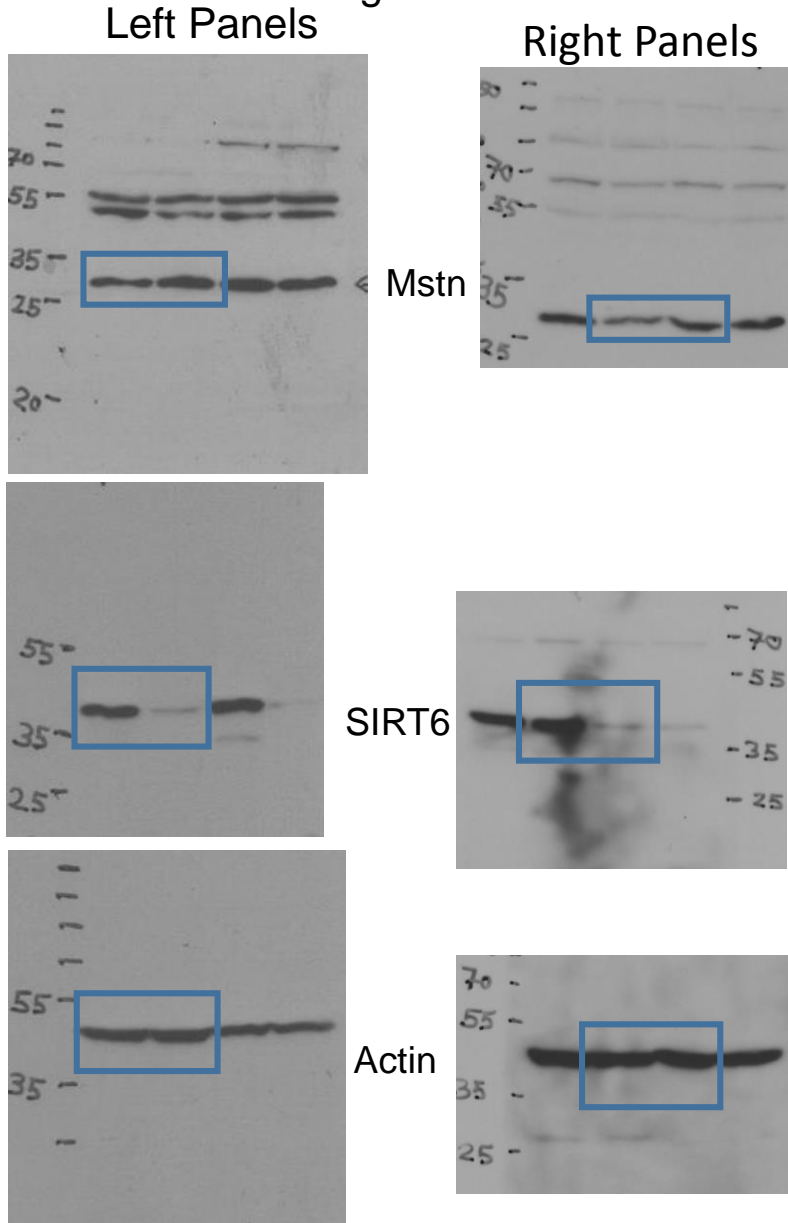
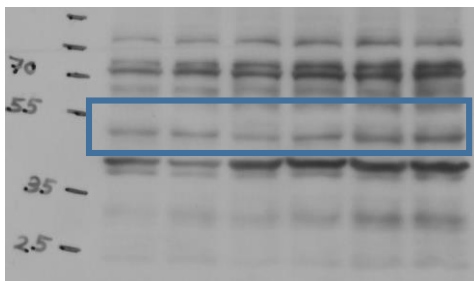


Figure 1G

MyoD



SIRT6



Actin

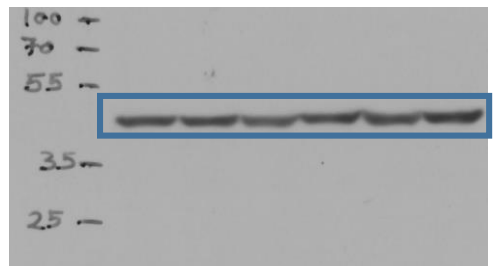


Figure 2B

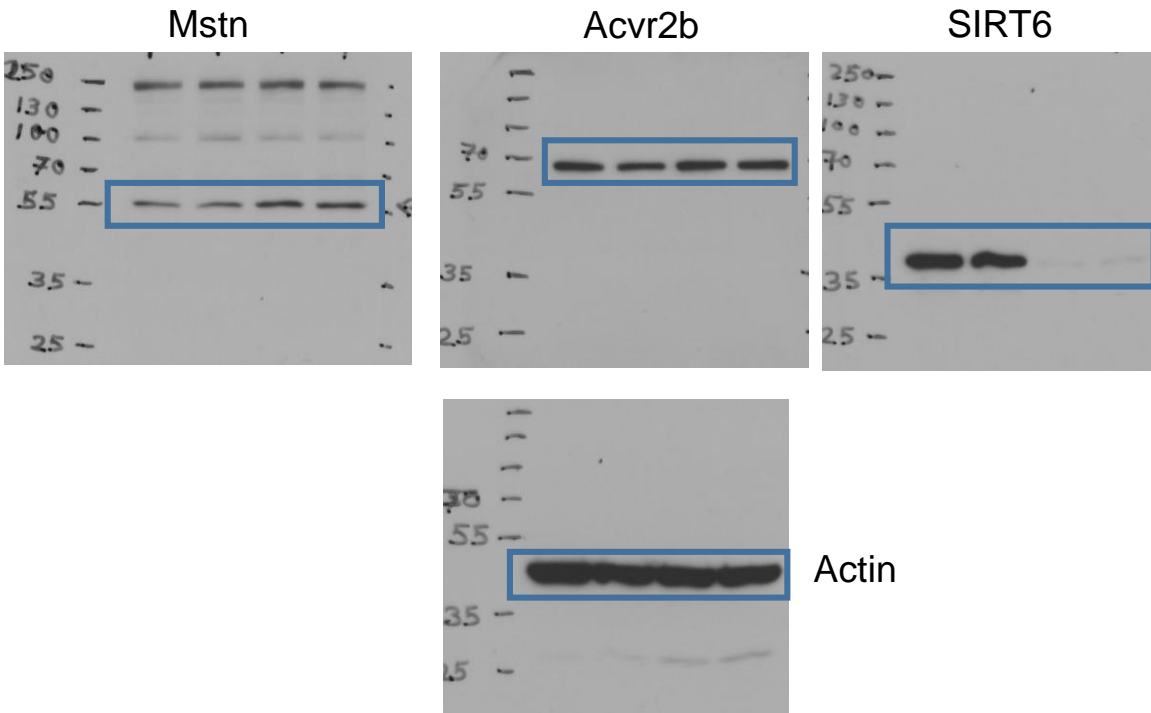


Figure 2F

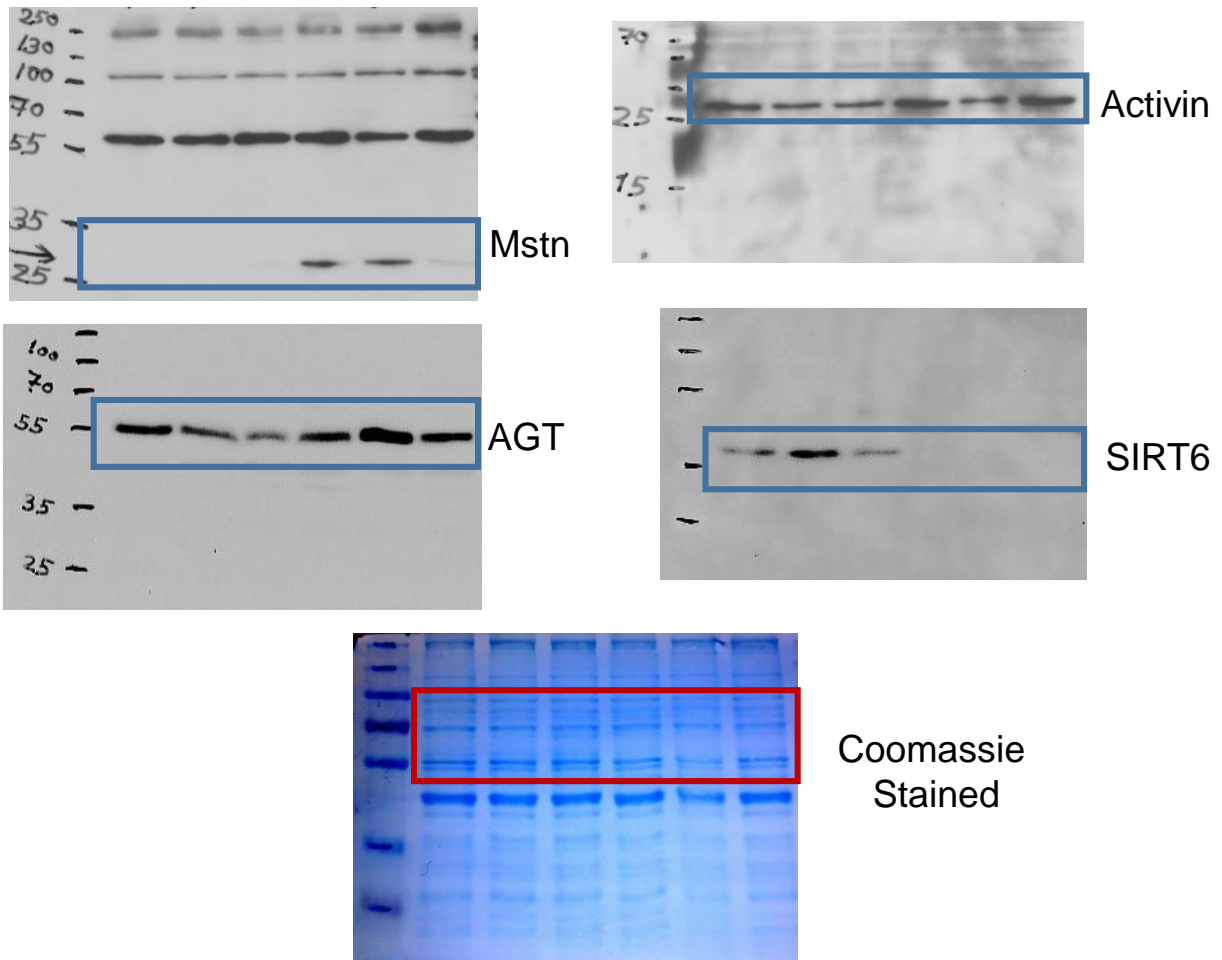


Figure 3B

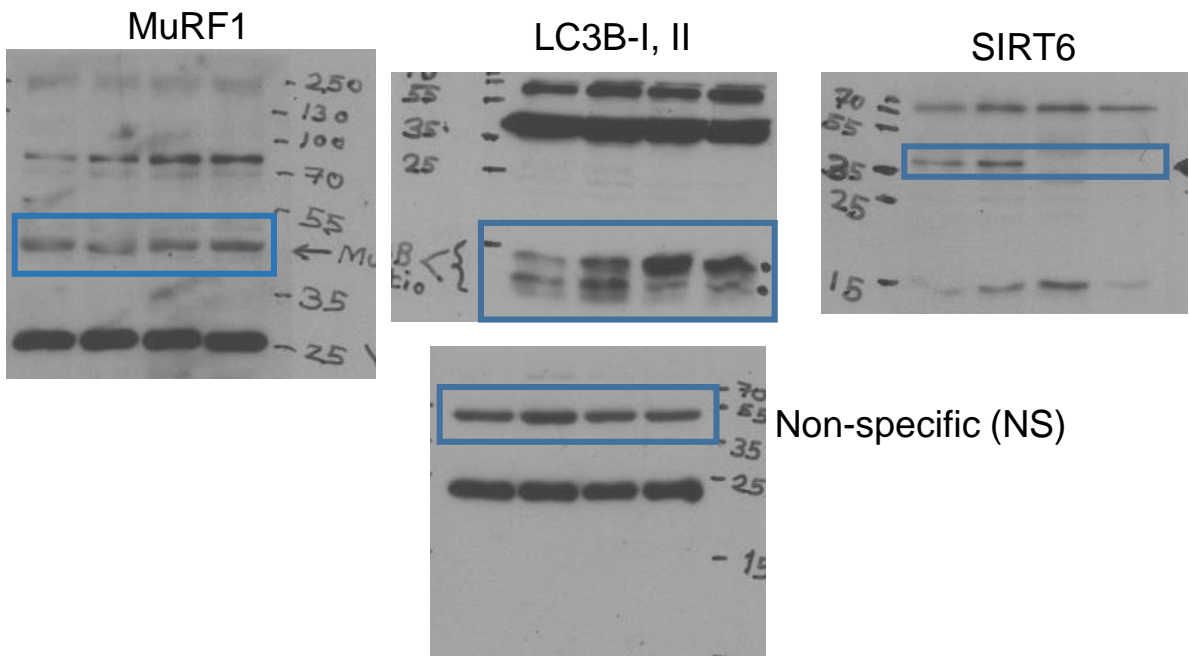


Figure 4B

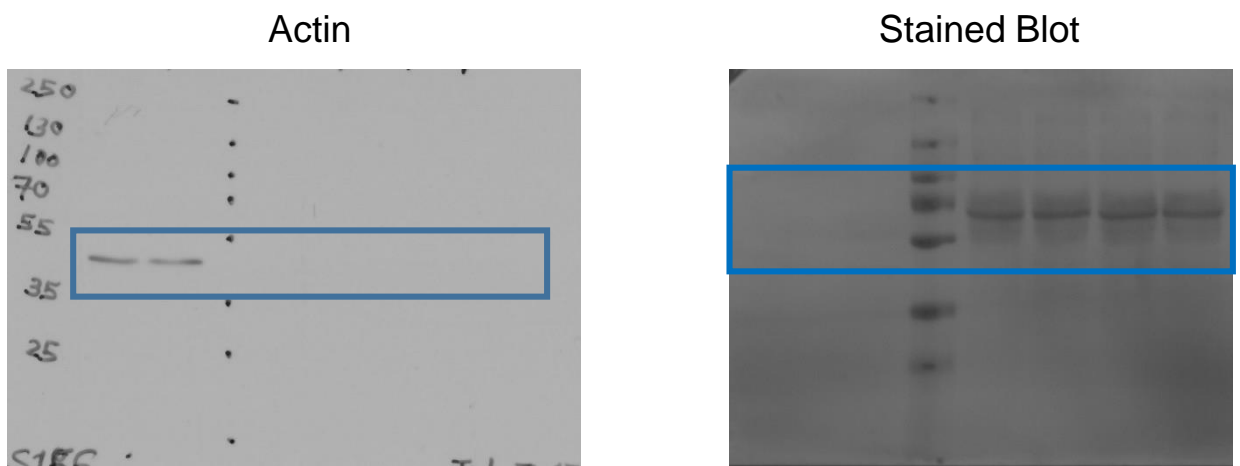


Figure 5A

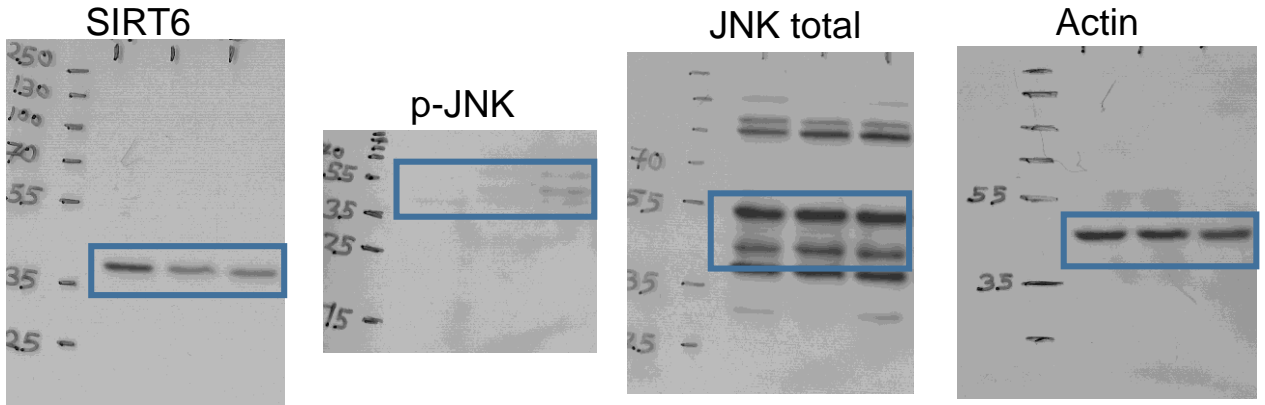


Figure 5B

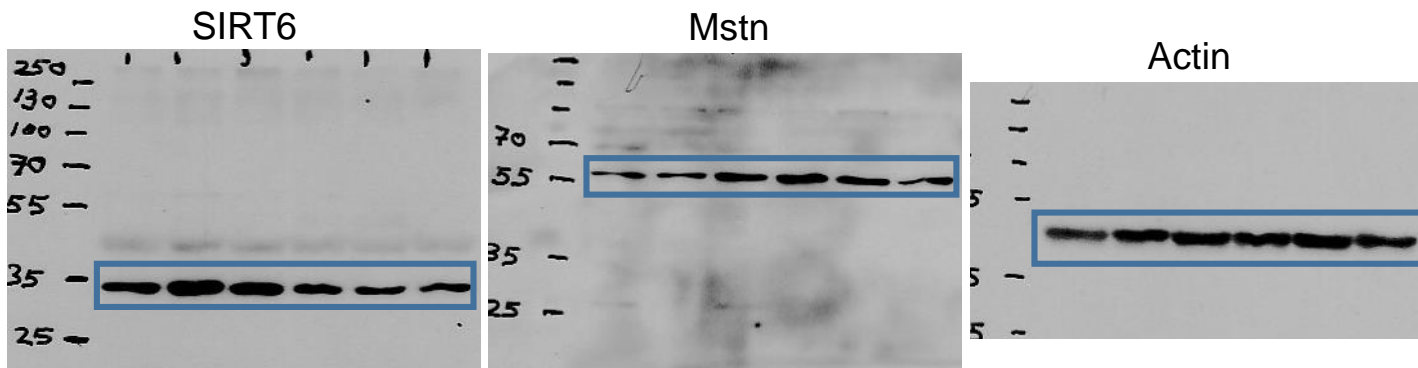


Figure 6B

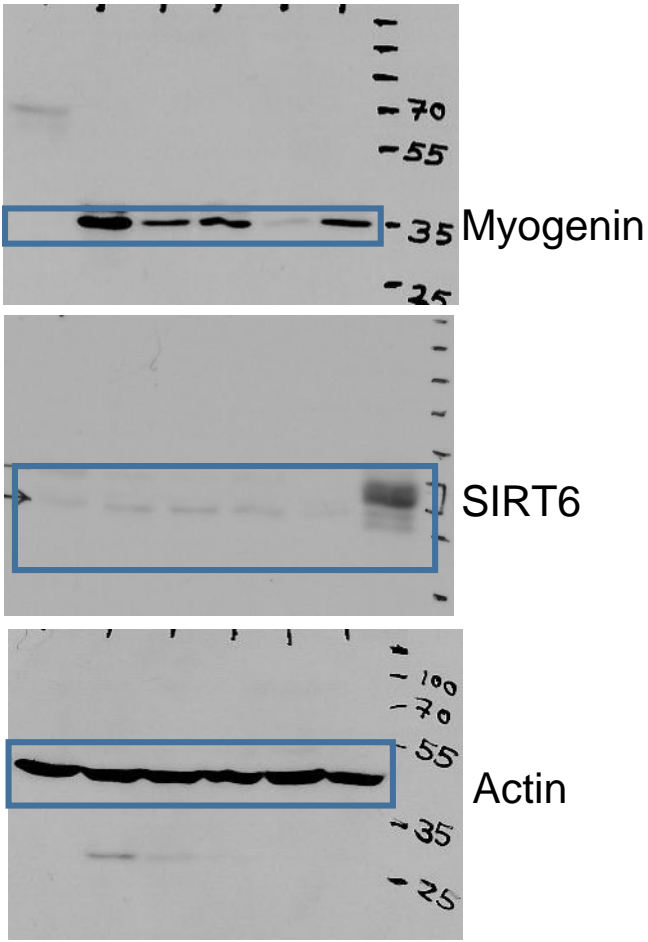


Figure 6C

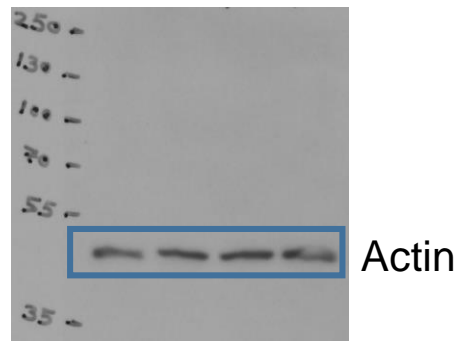
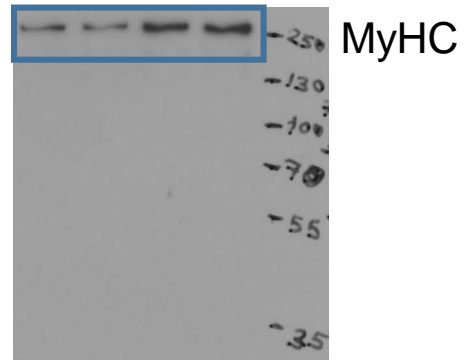


Figure 6C

