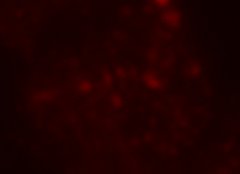
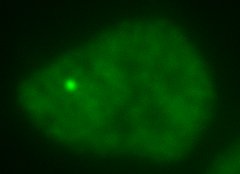
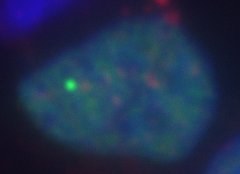
**Figure 5- figure supplement 1**

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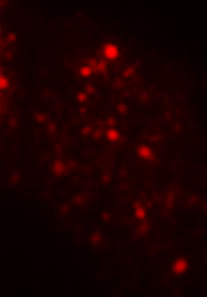
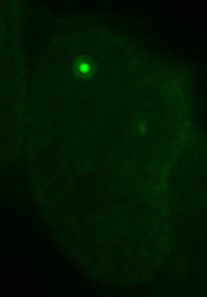
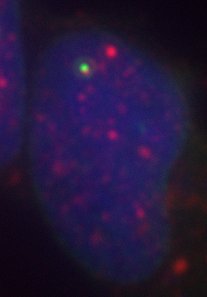
**(A)** Western blot of nuclear protein fraction of LacO containg U2OS cells after 12 or 24h treatment with 0, 5 or 10mM Nicotinamide (NAM) supplemented to their media. **(B)** Co-localization percentage with ɤH2AX of SIRT6 HY-LacR-GFP and GFP-LacR after 24h treatment with NAM at three concentrations (\*=p<0.05, \*\*=p<0.005, \*\*\*=p<0.0005). **(C)** IF of co-localization of Core-LacR-GFP (n=66, p>0.05). Experiment quantification appears in **Fig.** **5C**. **(D)** IF of co-localization of SIRT1-LacR-GFP (n=44, p>0.05), SIRT2-LacR-GFP (n=67, p<0.005) and SIRT7-LacR-GFP (n=68, p<0.005). Experiment quantification appears in **Fig.** **5D**.



**SIRT1-LacR**

**ɤH2AX ab**

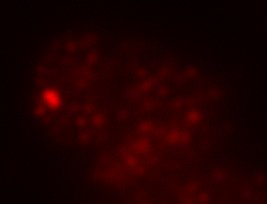
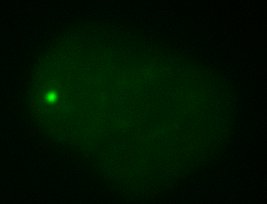
**Merge + DAPI**



**SIRT2-LacR**

**ɤH2AX ab**

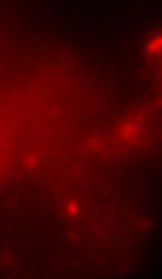
**Merge + DAPI**



**SIRT7-LacR**

**ɤH2AX ab**

**Merge + DAPI**

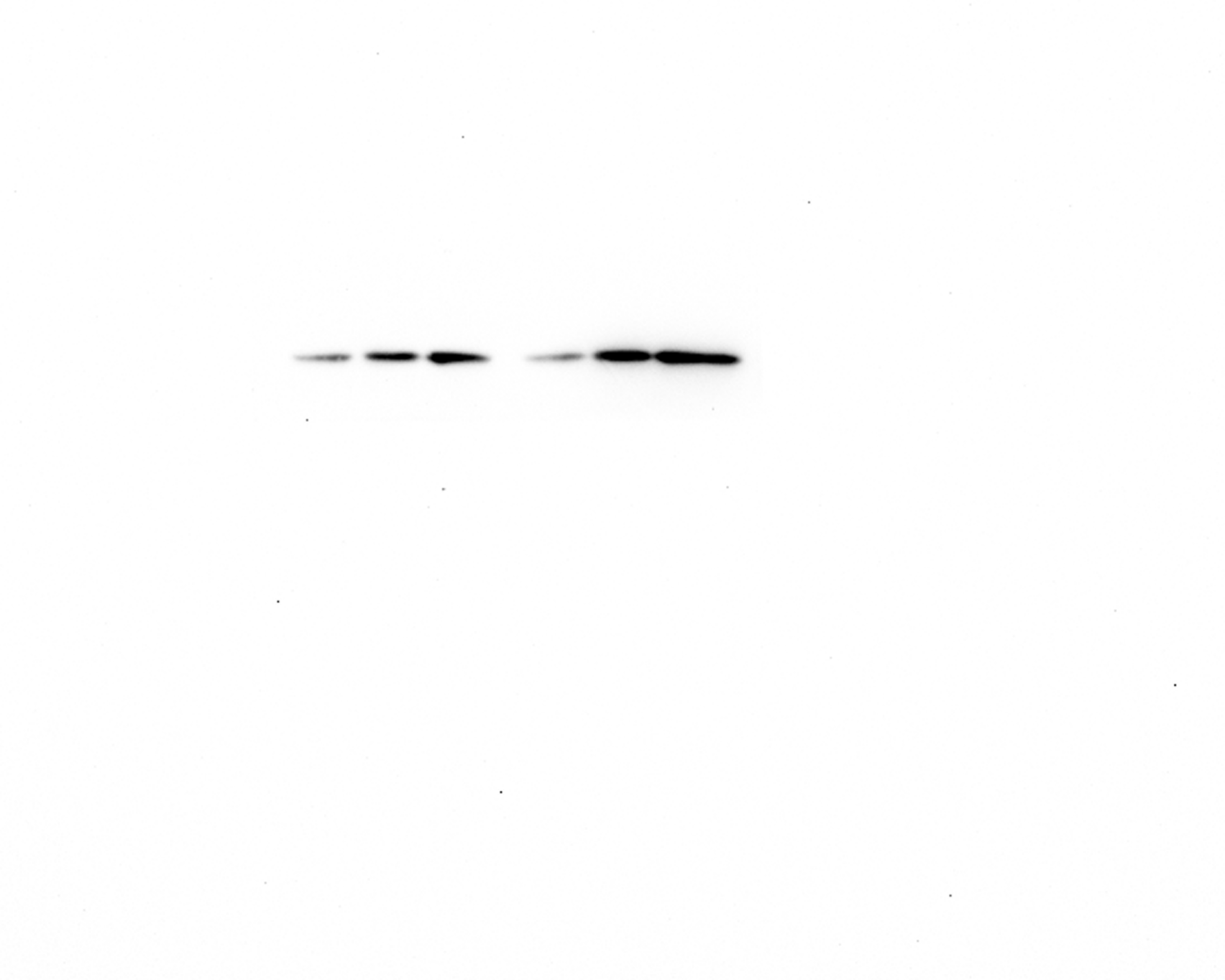
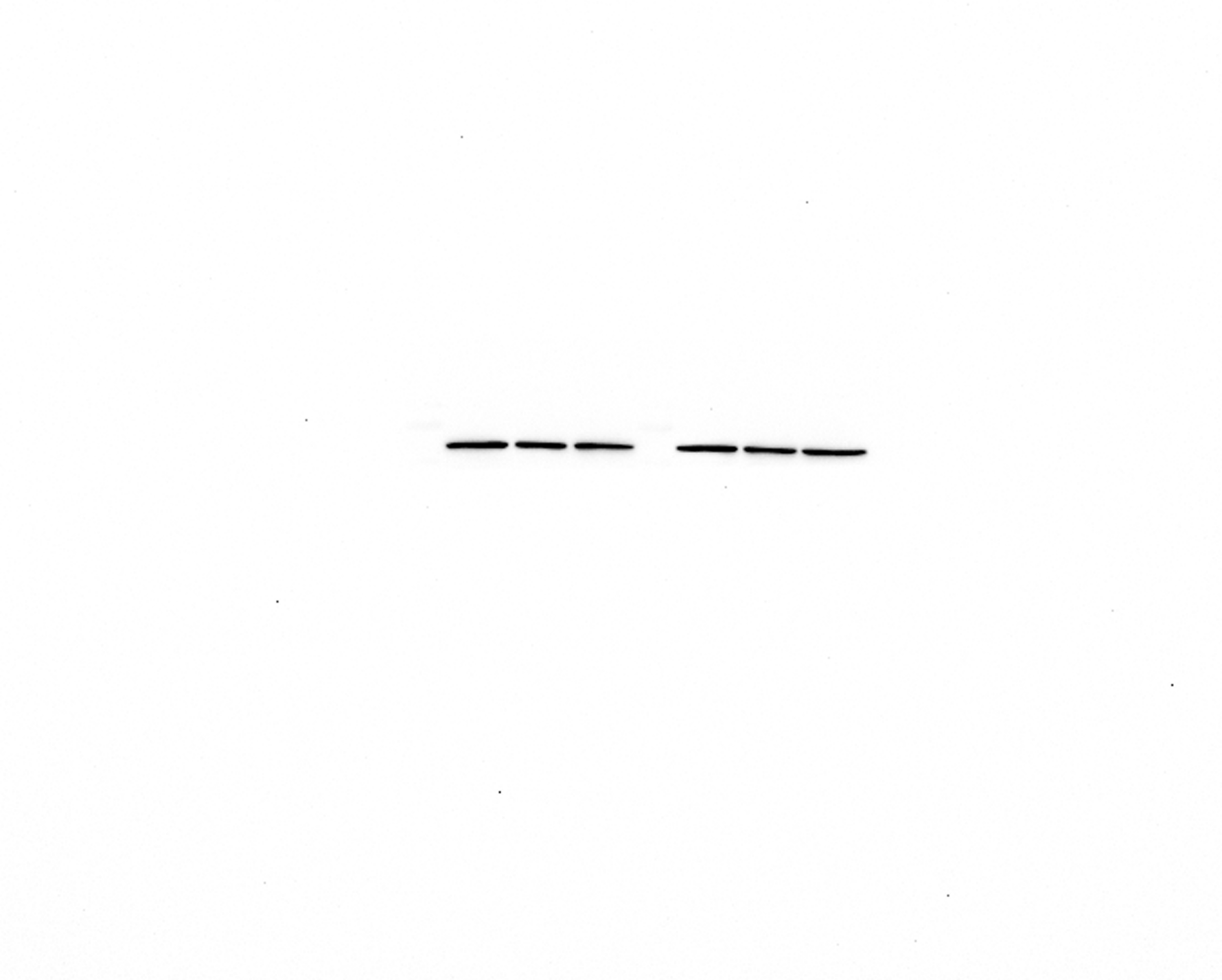


**Core-LacR**

**ɤH2AX ab**

**Merge + DAPI**

**D.**



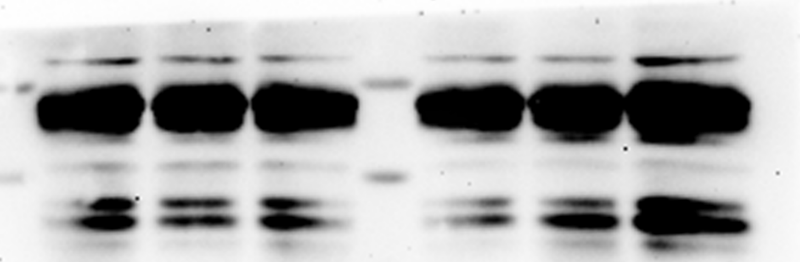
**12h Treatment**

**24h Treatment**

**HSC70**

**SIRT6**

**H3K56ac**



**NAM (mM)**

**0**

**5**

**10**

**0**

**5**

**10**



**A.**

**B.**

**C.**