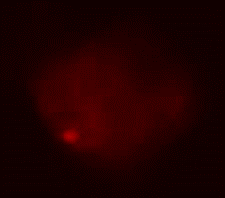
**Figure 6- figure supplement 2**

**A.**



**SIR6-HY-LacR**

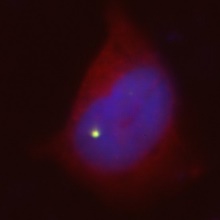
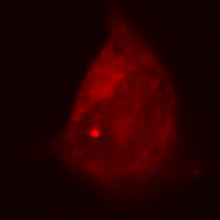
**BRCA1 ab**

**Merge + DAPI**

**GFP-LacR**

**BRCA1 ab**

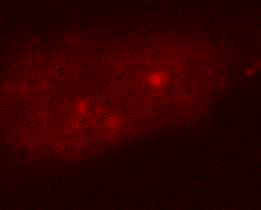
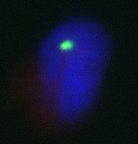
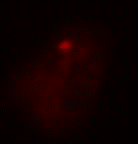
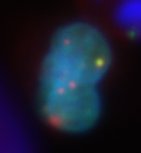
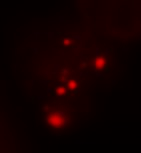
**Merge + DAPI**



**SIRT-LacR**

**BRCA1 ab**

**Merge + DAPI**



**53BP1 ab**

**Merge + DAPI**

**53BP1 ab**

**Merge + DAPI**

**53BP1 ab**

**Merge + DAPI**

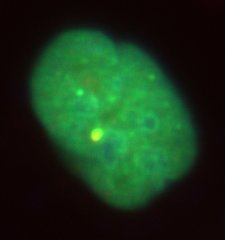
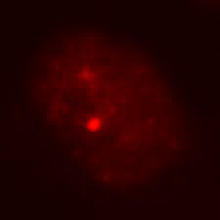
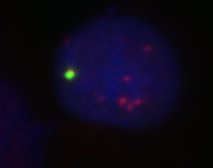
**SIRT6-HY-LacR**

**GFP-LacR**

**SIRT6-LacR**



**B.**



**SIRT6-LacR**

**53BP1 ab**

**Merge + DAPI**

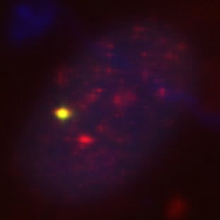
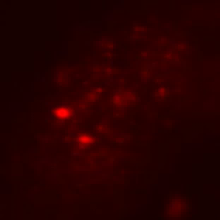
**SIRT6-LacR**

**BRCA1 ab**

**Merge + DAPI**

**Endogenous Proteins**

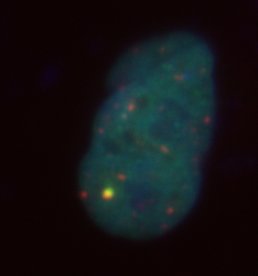
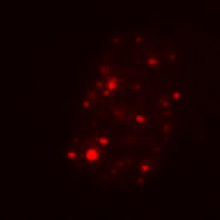
**Transfected Proteins**



**SIRT6-LacR**

**BRCA1-Flag**

**Merge + DAPI**



**53BP1-Flag**

**Merge + DAPI**

**SIRT6-LacR**



**C.**

**D.**

**Figure 6- figure supplement 2**

**(A-B)** Co-localization of 53BP1 and BRCA1 with SIRT6-LacR-GFP (53BP1: n=247, p<0.005; BRCA1: n=223, p<0.005) and HY-LacR-GFP (53BP1: n=113, p<0.005; BRCA1: n=122, p<0.005), compared with GFP-LacR (53BP1: n=130; BRCA1: n=157). Averages of 3-5 experiments +/- SEM. **(C-D)** Comparison of co-localization of endogenous 53BP1 (n=247) and BRCA1 (n=223) and transfected 53BP1-Flag (n=111) and BRCA1-Flag (n=146) with SIRT6-LacR-GFP, assessed by IF.