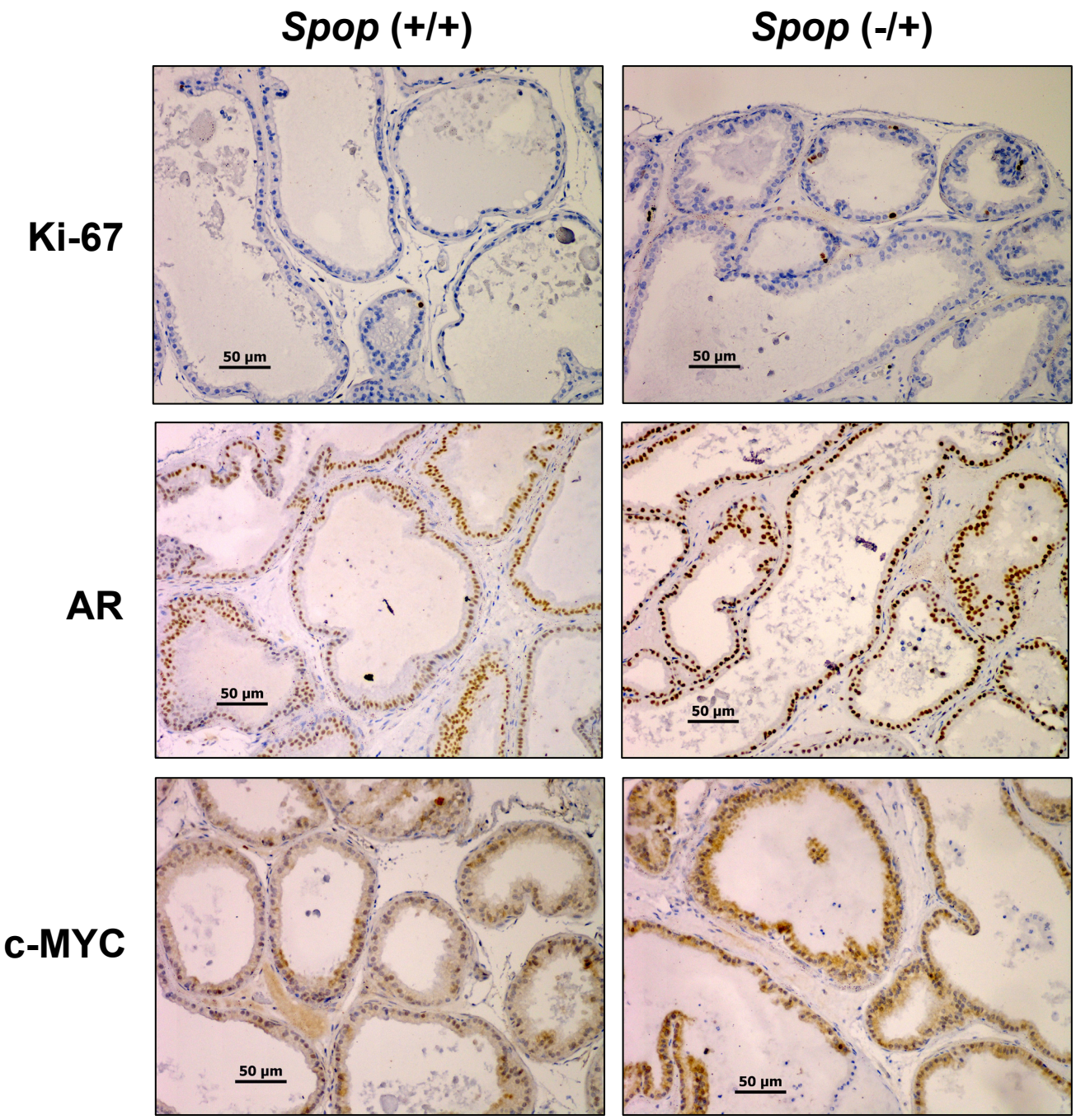
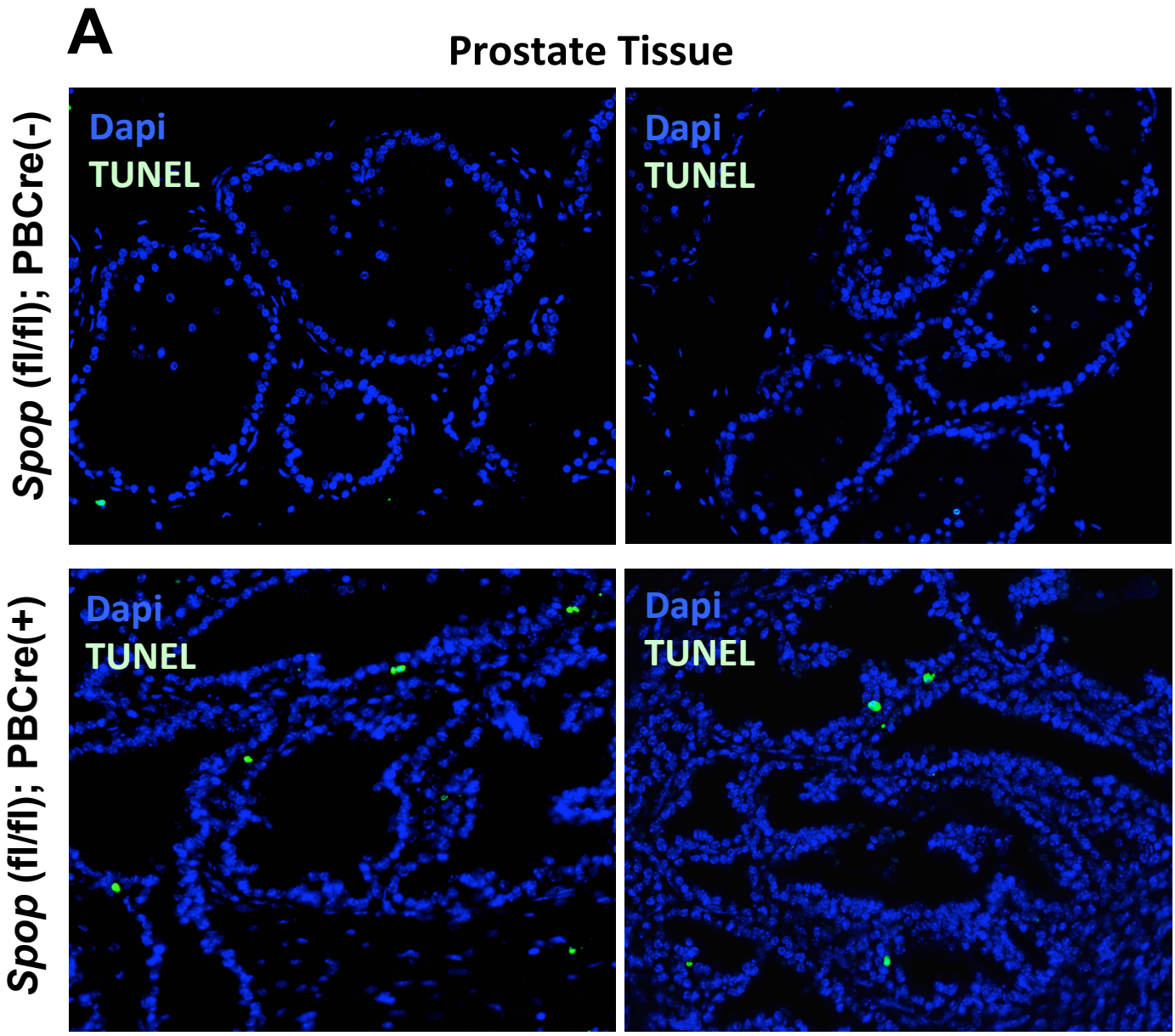
Supplementary Figure 7



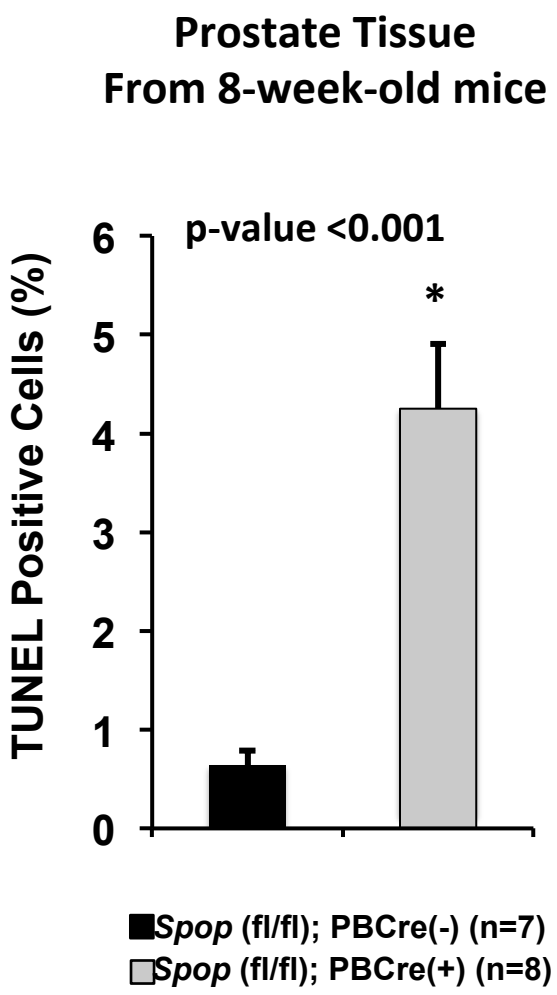
Supplementary Figure 7: *Spop*$^{+/-}$ mice exhibit increased AR and c-MYC protein levels compared to *Spop* wild-type mice. Representative immunohistochemical staining for Ki67, AR, and c-MYC expression in the prostates of 8 week-old wild-type C57BL/6 and Spop$^{tm1a\ (KOMP)Wtsi}$ (*Spop*$^{+/-}$) mice (n=4).

Supplementary Figure 8: Biallelic ablation of *Spop* results in increased presence of TUNEL-positive cells. (A) Representative TUNEL staining of prostate tissue from 8-week-old *Spop*$^{fl/fl}$;*PBCre(-)* and *Spop*$^{fl/fl}$;*PBCre(+)* mice. **(B)** Quantification of TUNEL-positive nuclei in prostates of 8-week-old *Spop*$^{fl/fl}$;*PBCre(-)* (n=7) and *Spop*$^{fl/fl}$;*PBCre(+)* (n=8) mice. Mean with SD is shown.

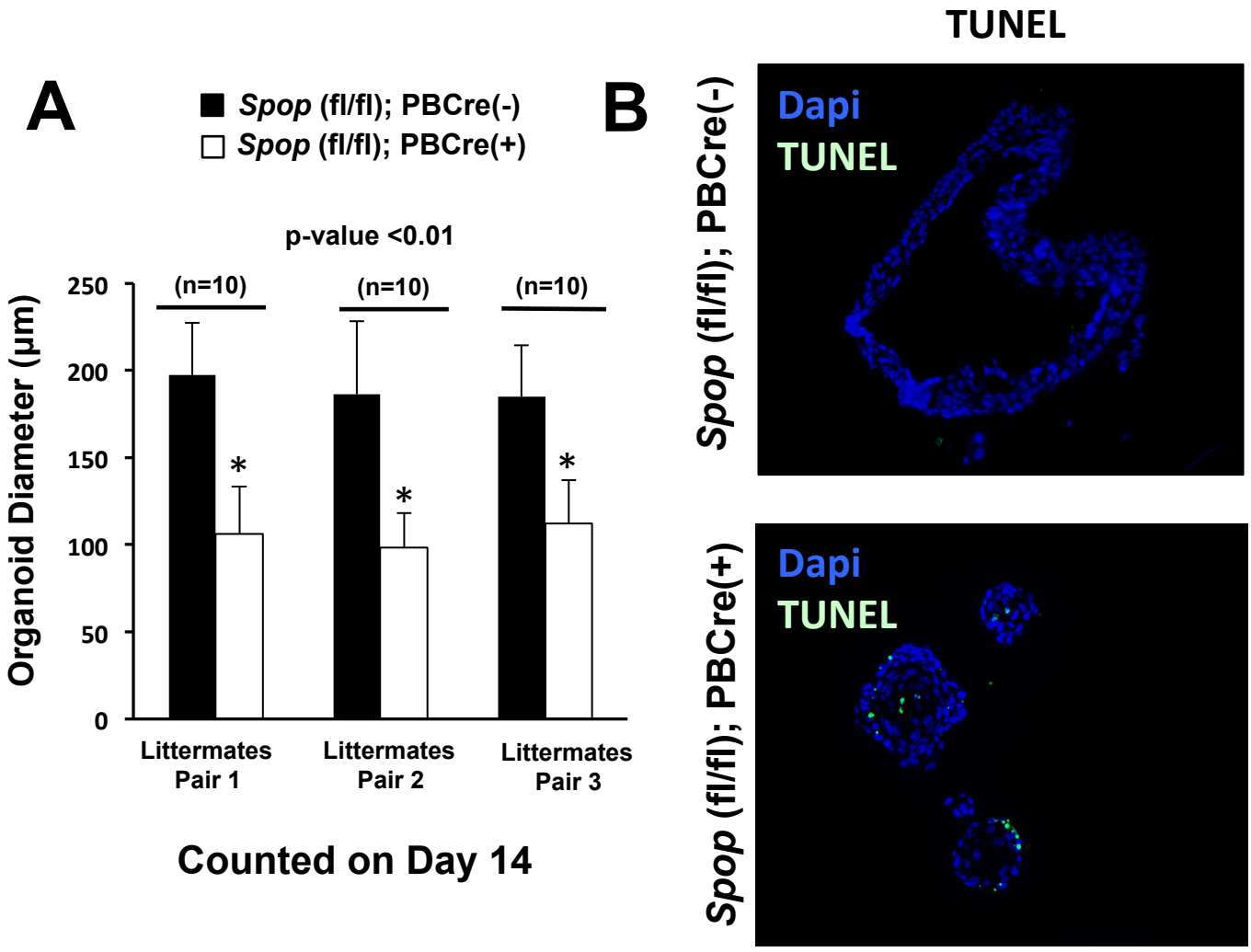


Supplementary Figure 8

B



Supplementary Figure 9



Supplementary Figure 9: Organoids generated from *Spop* knockout mice are smaller in size than WT controls. (A) Diameter of organoids generated from whole prostate of 8-week-old *Spop*$^{fl/fl}$;*PBCre(-)* and *Spop*$^{fl/fl}$;*PBCre(+)* mice. Data is shown from three independent experiments. **(B)** Representative TUNEL staining of organoids.

Supplementary Figure 10: Cre-recombinase IHC staining in *Spop* knockout prostate tissues. Shown here are representative Cre-IHC images of ventral prostate lobes isolated from *Spop*$^{fl/fl}$;*PBCre(-)* (n=7), *Spop*$^{fl/fl}$;*PBCre(+)* (n=8), and *Spop*^{WT};*PBCre(+)* (n=2) mice at the indicated age. Dorsolateral prostate lobes exhibited the same IHC pattern. (Cell signaling, Rabbit mAb #15036, 1:100 dilution).

Supplementary Figure 10

Immunohistochemical Analysis of Cre Recombinase