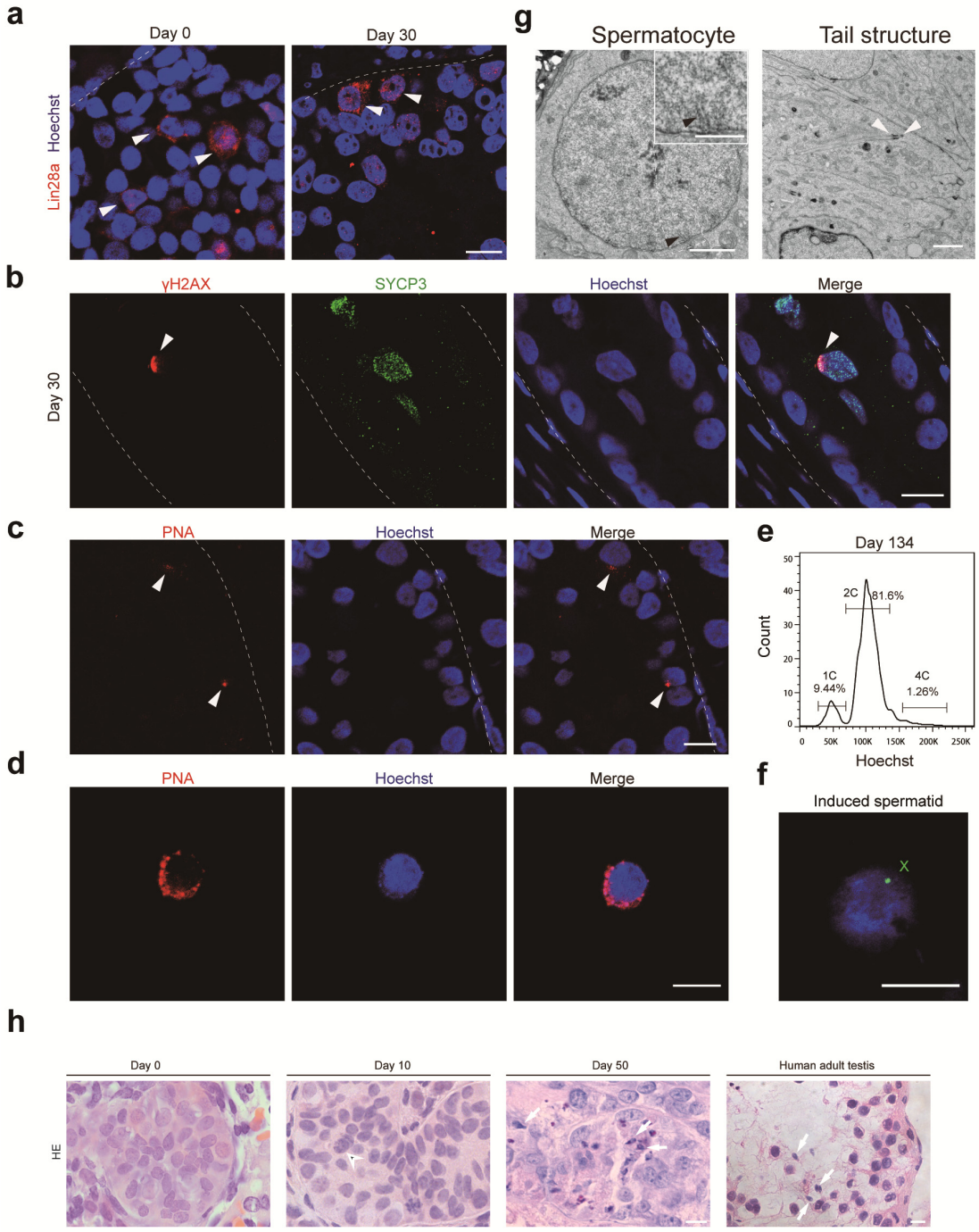
Figure S5. Properties of germ cells in testicular organogenesis after culture.

Related to Fig. 3.



a, Immunofluorescent labeling of 0- and 30- day cultured gonadal tissues for LIN28A (red). DNA was counterstained with Hoechst 33342 (blue). LIN28A+ cells (white triangles). Scale bars, 10 μm.

b, Immunostaining of cultured tissues for SYCP3 (green) and γH2AX (red). DNA was counterstained with Hoechst 33342 (blue). XY body by γH2AX staining (white triangles). Scale bars, 10 μm.

c, Immunostaining for PNA in cultured tissues (white triangles). DNA was counterstained with Hoechst 33342 (blue). Scale bars, 10 μm.

d, Immunostaining for PNA in haploid cells isolated after FACS. DNA was counterstained with Hoechst 33342 (blue). Scale bars, 10 μm.

e, FACS analysis of cultured tissue at day 134.

f, FISH using both fluorescent probes specific for chromosomes X and Y for haploid cells from (a) sorted by FACS. Scale bars, 10 μm.

g, Transmission electron microscopy shows ultramicrostructural findings of different cell types; primary spermatocytes with nuclear synaptonemal complexes: black triangles; and early tail structure: white triangles. Scale bars, Spermatocyte:2 μm. Tail structure: 2 μm.

h, H&E staining of 0-, 10- and 50-day cultured tissues and human adult testis. Spermatocytes in vitro (triangle), and spermatids in vitro or in vivo (arrow) are indicated; Scale bars, 10 μm.