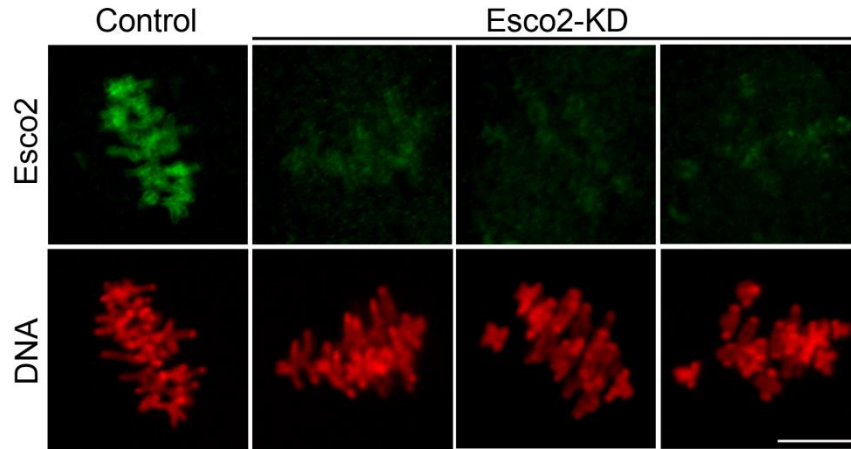


Supplementary Materials

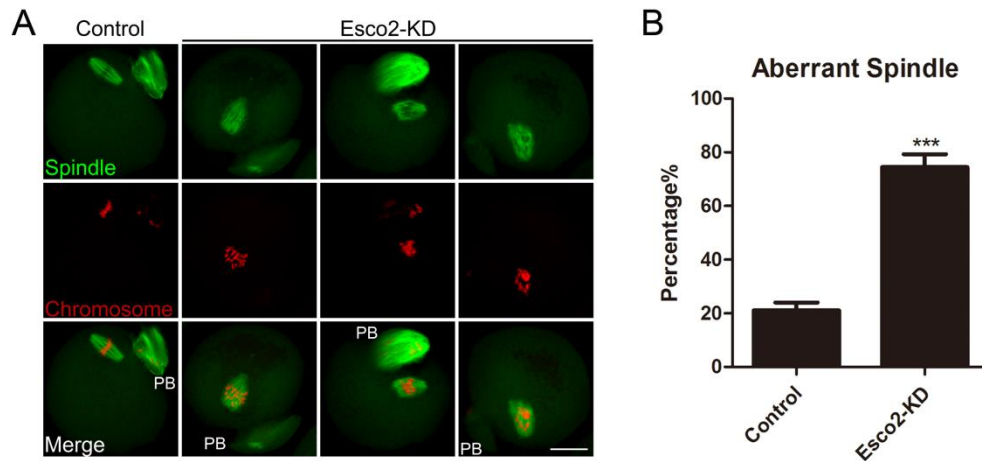
Lu et al, Supplementary figure S1



Supplementary figure S1:

The expression of Esco2 is reduced after Esco2 depletion. Esco2 in control and Esco2-KD oocytes was immunostained with anti-Esco2 antibody and counterstained with PI for DNA. Green: Esco2; Red: DNA. Scale bar, 5 μ m.

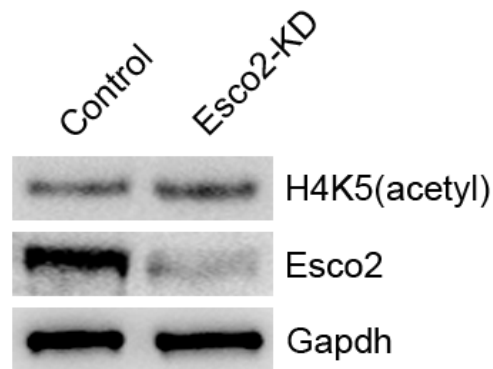
Lu et al, Supplementary figure S2



Supplementary figure S2:

Depletion of Esco2 causes spindle defects in MII oocytes. (A) Representative images of spindle morphologies in control and Esco2-KD oocytes. Scale bar, 20 μ m. (B) The rate of abnormal spindles was recorded in control and Esco2-KD oocytes. Data were presented as mean percentage (mean \pm SEM) of at least three independent experiments. Asterisk denotes statistical difference at a $p < 0.05$ level of significance.

Lu et al, Supplementary figure S3



Supplementary figure S3:

Depletion of Esco2 does not affect H4K5 acetylation level in oocytes. The acetylation levels of H4K5 in control and Esco2-KD oocytes were examined by western blotting with anti-H4K5ac antibody.