Figure S1. Validation of anti-TEX33 antibody effectiveness and specificity. (A) ELISA assay showing the titers of the anti-TEX33 antibody at dilutions up to 1:1,000,000. (B) Western blot analysis conducted using $Tex33^{+/+}$, $Tex33^{+/-}$ and $Tex33^{-/-}$ mice revealed that TEX33 protein was absent from the testes of $Tex33^{-/-}$ mice. (C) Immunofluorescence analysis showed that TEX33 protein was localized to not only the spermatids and sperm within the seminiferous tubules of $Tex33^{+/+}$ mice, but also (D) the manchette, (E) acrosome and (F) flagellum at high magnification. A450, absorbance at 450 nm; 1-5, the number of the individual rabbit; TEX33, testis-expressed protein 33; +/+, $Tex33^{+/+}$ (wild-type) mice; +/-, $Tex33^{+/-}$ (heterozygous) mice; -/-, $Tex33^{-/-}$ (homozygote) mice; DAPI, 4',6-diamidino-2-phenylindole; A, acrosome (indicated by arrowheads); M, manchette (indicated by arrowheads)...

