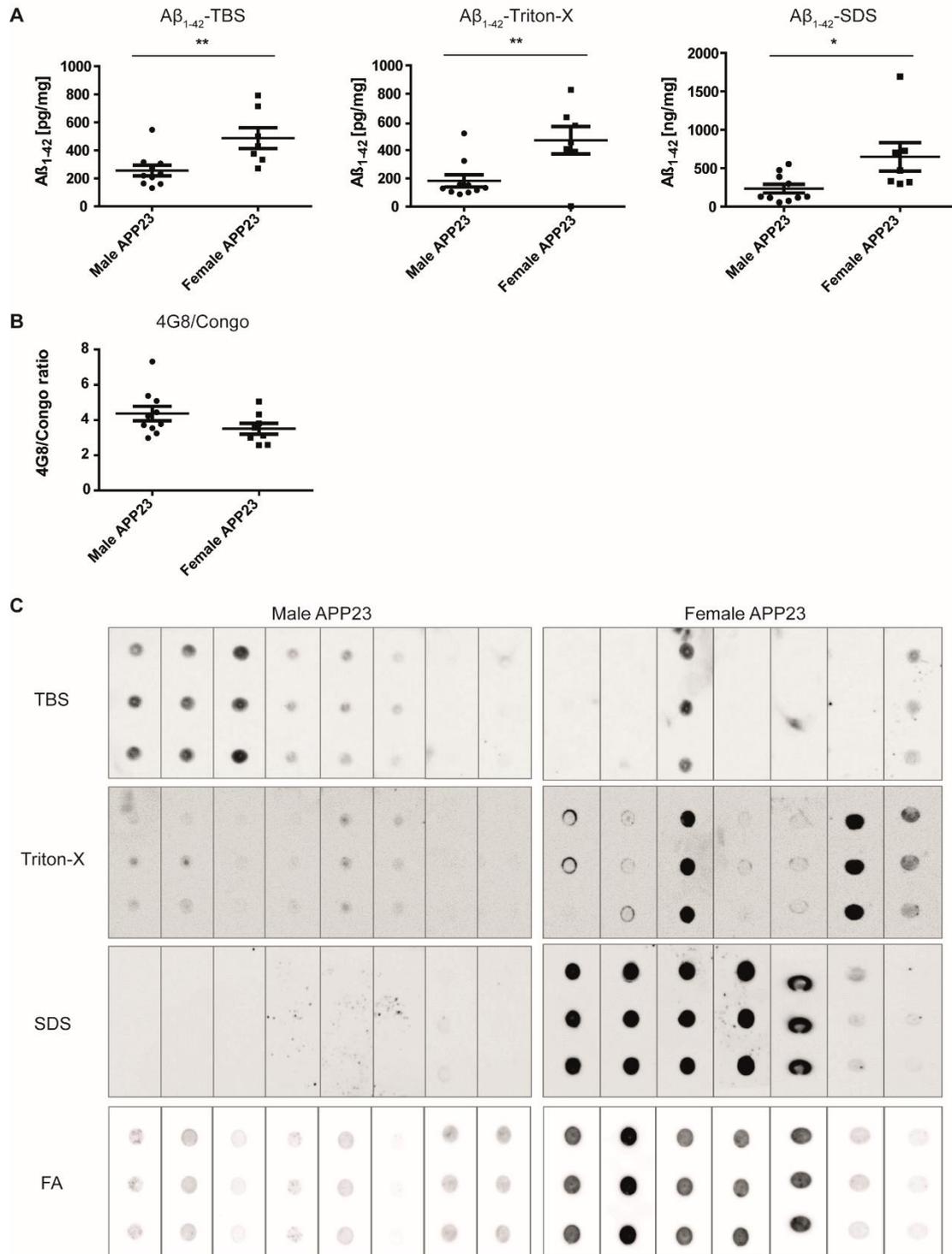
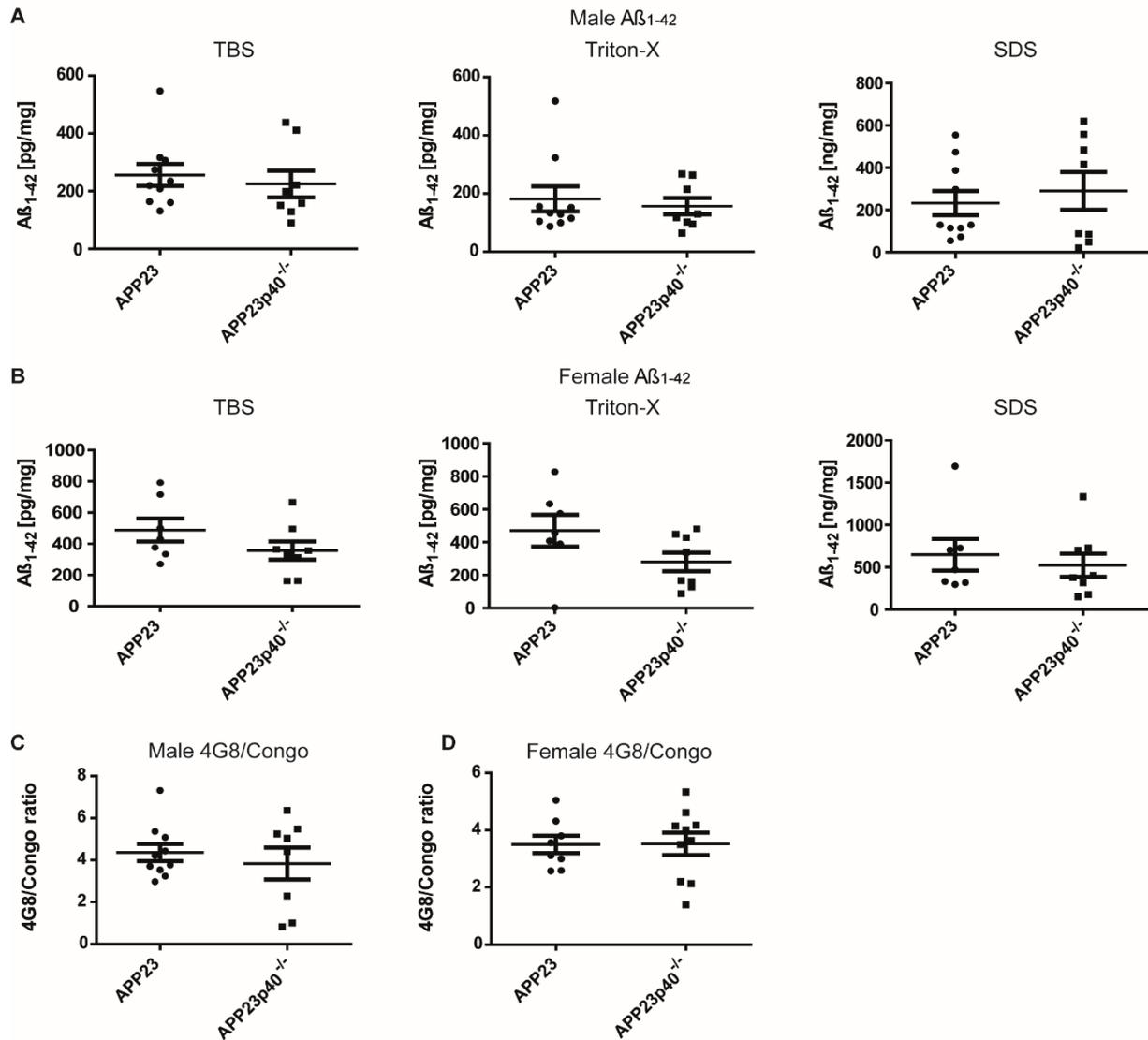


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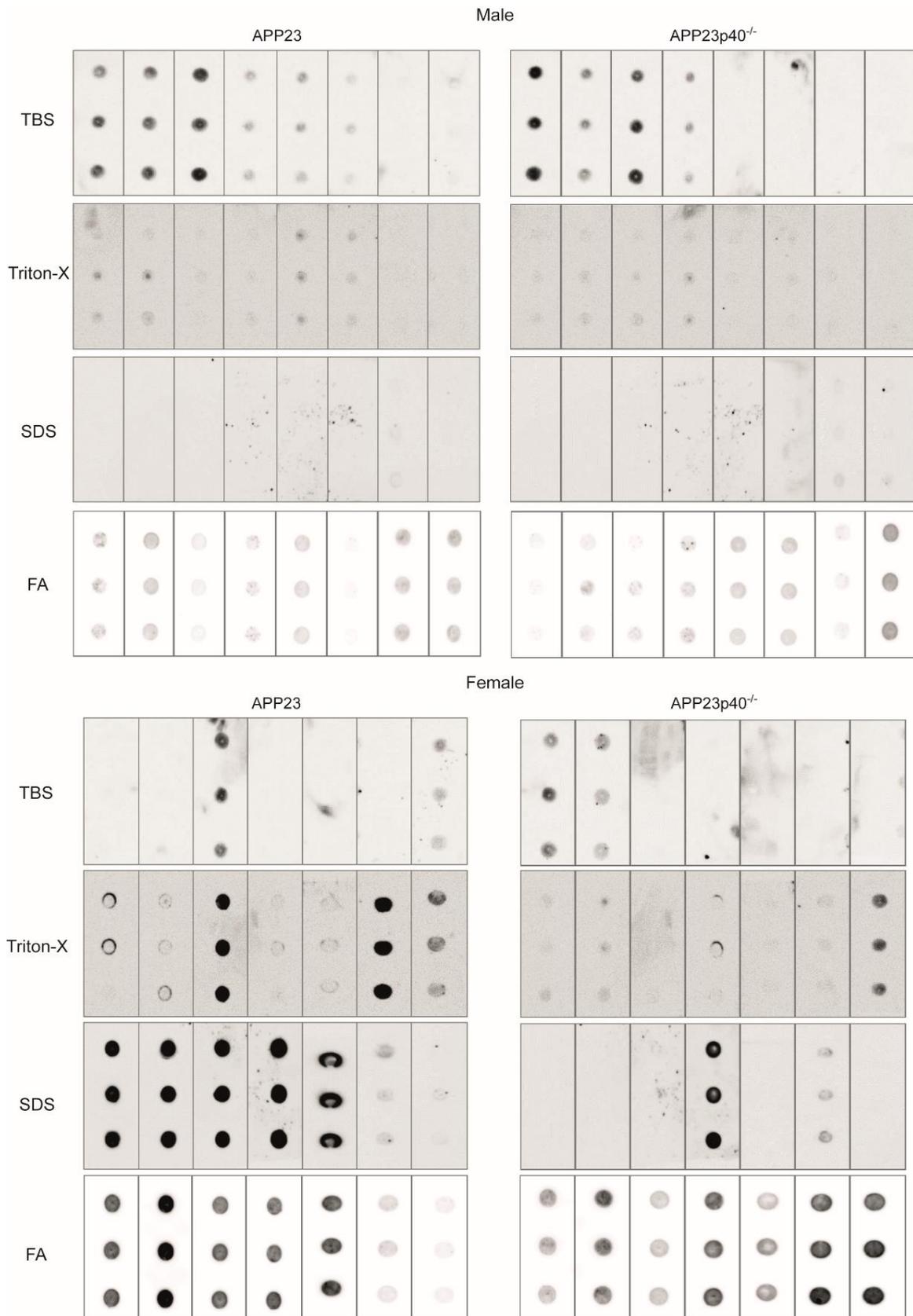
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Appendix Figure S1. Levels of various $A\beta$ species in male and female APP23 mice. (A) Mesoscale analysis of $A\beta_{1-42}$ protein in the TBS ($p=0.0082$), Triton-X ($p=0.0085$) and SDS ($p=0.0267$) fractions of brain homogenates from male ($n=10$) and female ($n=7$) APP23 mice. Total protein concentration of each sample was used as an internal reference. Mean \pm s.e.m., statistical analysis: two-tailed unpaired t-test. (B) Ratio of the percentage of the cortical area covered by 4G8- and Congo Red- positive amyloid plaques in male ($n=10$) and female ($n=8$) APP23 mice. Mean \pm s.e.m., statistical analysis: two-tailed unpaired t-test, $p=0.1235$. (C) 6E10-stained dot blots of filter membranes analyzing TBS, Triton-X, SDS and formic acid (FA)-soluble protein fractions in male (left, $n=8$) and female (right, $n=7$) APP23 mice. Each sample was analysed in triplicate, each box representing one sample.



Appendix Figure S2. Effect of IL12p40 deficiency on various $A\beta$ species. (A-B) Mesoscale analysis of $A\beta_{1-42}$ protein in the TBS (male $p=0.6029$, female $p=0.1822$), Triton-X (male $p=0.6506$, female $p=0.1049$) and SDS (male $p=0.5841$, female $p=0.5945$) fractions of brain homogenates from (A) male APP23 ($n=10$) and APP23p40^{-/-} ($n=8$) mice and from (B) female APP23 ($n=7$) and APP23p40^{-/-} ($n=8$) mice. Total protein concentration of each sample was used as an internal reference. Mean \pm s.e.m., statistical analysis: two-tailed unpaired t -test. (C-D) Ratio of the percentage of the cortical area covered by 4G8- and Congo Red- positive amyloid plaques in (C) male APP23 ($n=10$) and APP23p40^{-/-} ($n=8$) mice ($p=0.5236$) and in (D) female APP23 ($n=8$) and APP23p40^{-/-} ($n=10$) mice ($p=0.9749$). Mean \pm s.e.m., statistical analysis: two-tailed unpaired t -test.



Appendix Figure S3. Filter assay of brain homogenates from male and female APP23 and APP23p40^{-/-} mice. 6E10-stained dot blots of filter membranes analysing TBS, Triton-X, SDS and formic acid (FA)-soluble protein fractions in male APP23 (n=8) and APP23p40^{-/-} (n=8) mice (top) and female APP23 (n=7) and APP23p40^{-/-} (n=7) mice (bottom). Each sample was analysed in triplicate, each box representing one sample.