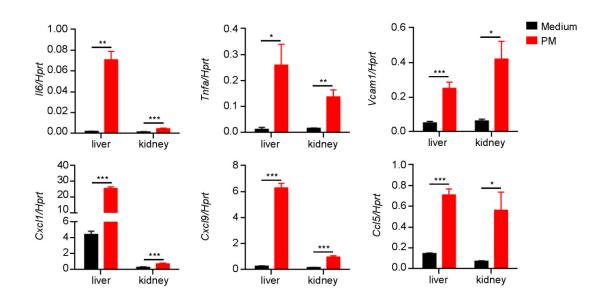
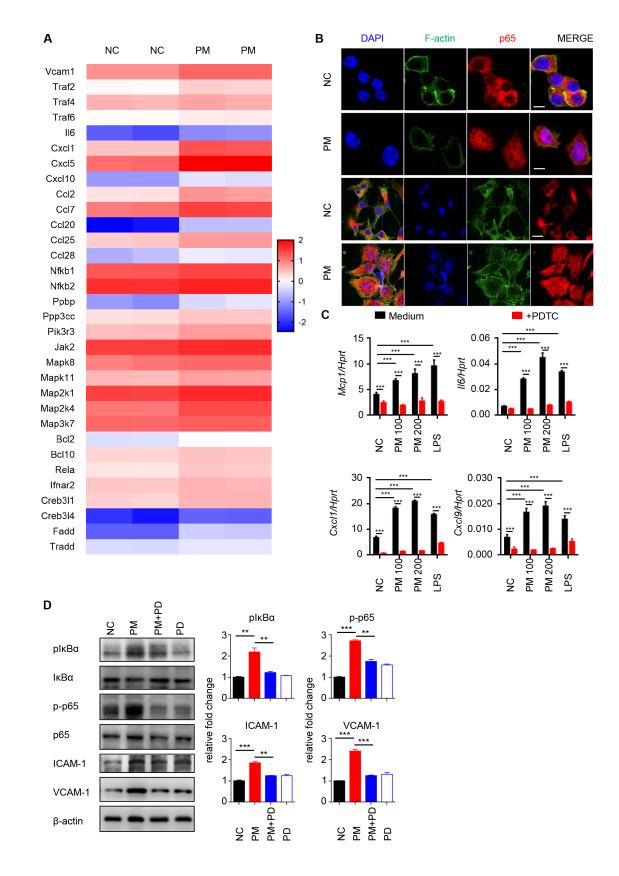
Supplementary Table 1. Primers used in this study.

Gene	5' primer	3'primer
lfnb	GCCTTTGCCATCCAAGAGATGC	ACACTGTCTGCTGGTGGAGTTC
Cxcl9	GAGGCACGATCCACTACAAA	AGTCCGGATCTAGGCAGGTT
Tnfa	ATGAGAGGGAGGCCATTTG	CAGCCTCTTCTCATTCCTGC
Mcp1	CTTCTGGGCCTGCTGTTCA	CCAGCCTACTCATTGGGATCA
<i>ll6</i>	TGGTACTCCAGAAGACCAGAGG	AACGATGATGCACTTGCAGA
Cxcl1	ATGGCTGGGATTCACCTC	CTTCAGGGTCAAGGCAAG
Cxcl10	GCAGGTACAGCGTACGGTTC	CAGCAGAGGAACCTCCAGTC
Hprt	CTCATGGACTGATTATGGACAGGAC	GCAGGTCAGCAAAGAACTTATA
		GCC



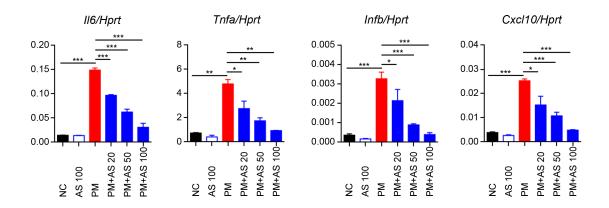
Supplementary Figure 1. Exposure of PM causes inflammation in liver and kidney of mice. Expression analysis of *Il6*, *Tnfa*, *Vcam1*, *Cxcl1*, *Cxcl9* and *Ccl5* in livers and kidneys after 7-days of PM exposure. Data represent two independent experiments. Data are presented as mean \pm SEM. *, *P* < 0.05; **, *P* < 0.01; ***, *P* < 0.001.



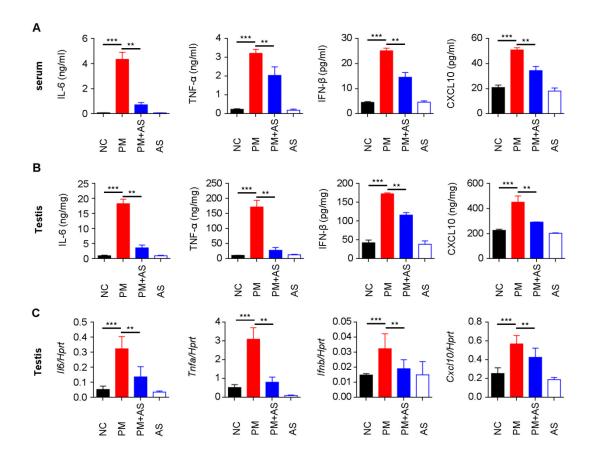
Supplementary Figure 2. PM activates NF-*k*B signaling in mouse Leydig cells. (A)

Heatmap showing the expression of genes comprised in NHB signaling after 200

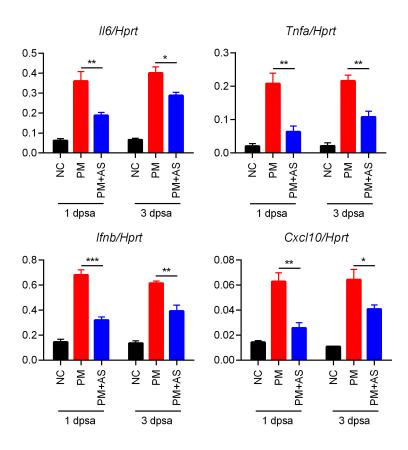
µg/ml PM administration for 24 hours. (**B**) Confocal microscopy analysis of p65 in TM3 cells after 200 µg/ml PM administration for 12 hours. Scale bars: 50 µm in yellow and 20 µm in white. (**C**) Expression analysis of *Mcp1*, *Il6*, *Cxcl1* and *Cxcl9* in TM3 cells after PM administration for 12 hours (NC, PBS; PM 100, PM at 100 µg/ml; PM 200, PM at 200 µg/ml; LPS, 1 µg/ml). (**D**) Immunoblot analysis of phosphorylation of IkBα and p65 and protein level of IkBα, VCAM-1, ICAM-1 and p65 in mouse testis after 3 day's of exposure. β-actin was used as the loading control. The intensity of signaling was quantified. Data represent three independent experiments in **B-C**. Data are presented as mean \pm SEM. **, *P* < 0.01; ***, *P* < 0.001.



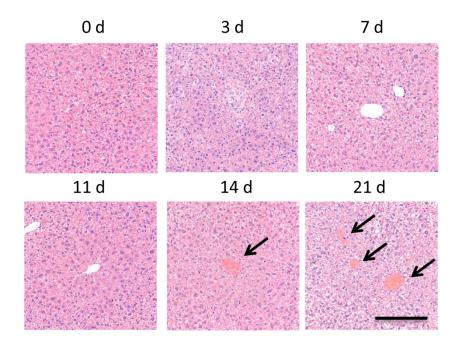
Supplementary Figure 3. aspirin pre-treatment reduces PM exposure induced inflammation (related to Figure 3). Expression analysis of *Il6*, *Tnfa*, *Ifnb*, and *Cxcl10* in the testis TM3 cells post 200 µg/ml PM administration for 12 hours with or without 20, 50 or 100 µg/ml aspirin. Data are presented as mean \pm SEM. *, *P* < 0.05; **, *P* < 0.01; ***, *P* < 0.001.



Supplementary Figure 4. Aspirin pre-treatment alleviates PM-induced systemic and testicular inflammation in mice. (**A**) Production of IL-6, TNF-α, IFN-β and CXCL10 in the serum of mice after 7-days of PM exposure with or without intragastrically administration of aspirin. (NC, PBS; PM, 400 µg/kg PM; AS, aspirin 20 mg/kg only; PM+AS, 400 µg/kg PM + 20 mg/kg aspirin). (**B**) Production of IL-6, TNF-α, IFN-β and CXCL10 in the testes of mice after 7-days of PM exposure with or withoutintragastrically administration of aspirin. (**C**) Expression analysis of *Il6*, *Tnfa*, *Ifnb*, and *Cxcl10* in the testes of mice after 7-days of PM exposure with or without intragastrically administration of aspirin. (**C**) Expression analysis of *Il6*, *Tnfa*, *Ifnb*, and *Cxcl10* in the testes of mice after 7-days of PM exposure with or without intragastrically administration of aspirin. Data are presented as mean ± SEM. **, *P* < 0.01; ***, *P* < 0.001.



Supplementary Figure 5. The retained protective effect of aspirin. Expression analysis of *Il6*, *Tnfa*, *Ifnb*, and *Cxcl10* in the testes of mice after 200 µg/ml PM administration at indicated time. Mice were intragastrically administration of 20 mg/kg aspirin for 5 days before PM exposure. dpsa, days post stopping asipirin administration. *, P < 0.05; **, P < 0.01; ***, P < 0.001.



Supplementary Figure 6. Preliminary evaluation of hemorrhagic side effect of

aspirin treated mice. H&E staining evaluation of the hemorrhagic spot (black arrow) in the livers of mice taking 20 mg/kg of aspirin for indicated time.