

SUPPLEMENTAL MATERIAL

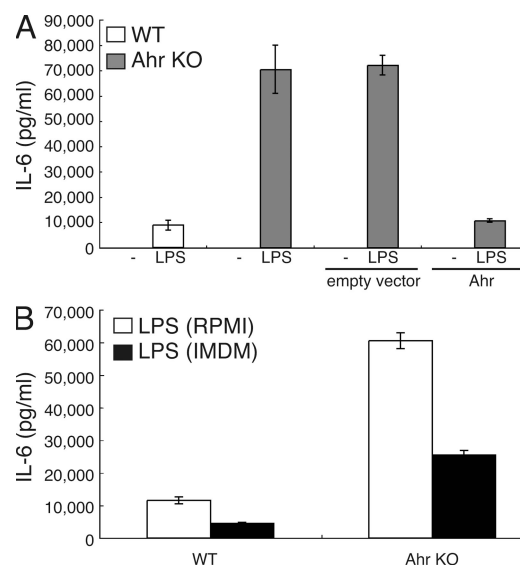
Kimura et al., <http://www.jem.org/cgi/content/full/jem.20090560/DC1>

Figure S1. Ahr regulates LPS-induced IL-6 production independently on culture medium. (A) Ahr-deficient cells were transduced with Ahr-encoding retrovirus. WT, Ahr KO cells, and Ahr KO cells transduced with Ahr were stimulated with LPS for 24 h. The production of IL-6 was measured by means of ELISA. Data show means \pm SEM of three independent experiments. (B) WT and Ahr KO peritoneal macrophages cultured in RPMI or IMDM medium were stimulated with LPS for 24 h. The production of IL-6 was measured by means of ELISA. Data show means \pm SEM of three independent experiments.

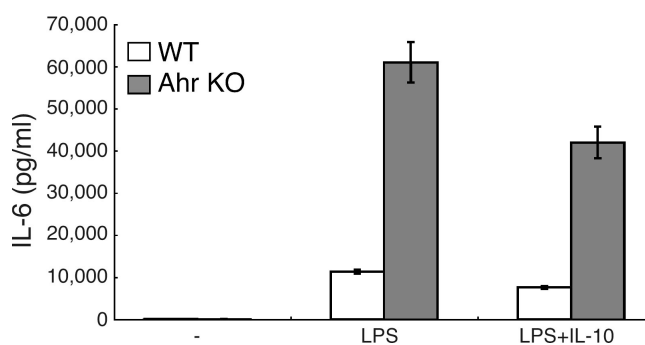


Figure S2. Ahr regulates LPS-induced IL-6 production independently of IL-10. WT and Ahr KO peritoneal macrophages were stimulated with LPS in the presence or absence of IL-10 for 24 h. The production of IL-6 was measured by means of ELISA. Data show means \pm SEM of three independent experiments.

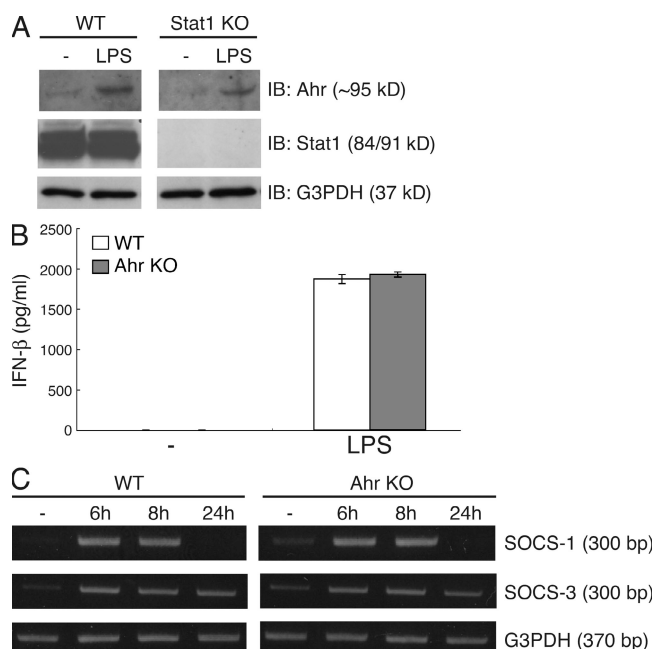


Figure S3. Normal induction of Ahr in Stat1-deficient peritoneal macrophages and IFN-β and SOCS family members in Ahr KO cells. (A) WT and Stat1 KO peritoneal macrophages were stimulated with LPS for 24 h. The cells were lysed and subjected to immunoblotting (IB) analysis for the expression of Ahr and G3PDH. Data are from one representative of three independent experiments. (B) Peritoneal macrophages from WT and Ahr KO mice were stimulated with LPS for 24 h. The production of IFN-β was measured by means of ELISA. Data show means ± SEM of three independent experiments. (C) Peritoneal macrophages from WT and Ahr KO mice were stimulated with LPS for the indicated periods of time. Total RNA and cDNA were prepared after LPS stimulation. SOCS-1 and SOCS-3 induction was examined by using reverse transcription-PCR. Data are from one representative of three independent experiments.

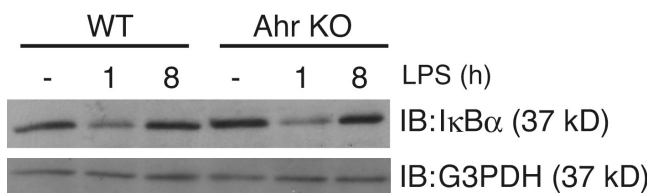


Figure S4. There is no difference in IκBα degradation by LPS between WT and Ahr KO peritoneal macrophages. WT and Ahr KO peritoneal macrophages were stimulated with LPS for the indicated periods of time. Cells were lysed and whole cell lysates were used for immunoblotting analysis with anti-IκBα and anti-G3PDH antibodies. Data are from one representative of three independent experiments.

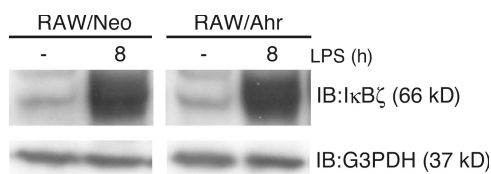


Figure S5. IκBζ is induced by LPS in the presence or absence of Ahr. RAW/Neo and RAW/Ahr were stimulated with LPS for 8 h. Cells were lysed and whole cell lysates were used for immunoblotting analysis with anti-IκBζ and anti-G3PDH Abs. Data are from one representative of three independent experiments.