Supplementary

MicroRNAs as Potential Mediators for Cigarette Smoking Induced Atherosclerosis

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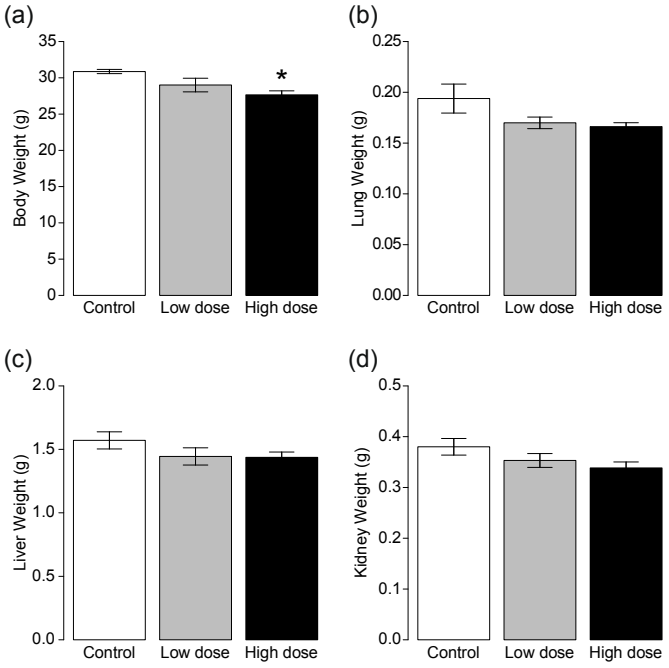

Figure S1. Changes in (a) body, (b) lung, (c) liver, and (d) kidney weights of ApoE KO mice after 2-month exposure to CS at low or high dose. Data are mean±SEM of seven animals per group. **P*<0.05 versus the control group.

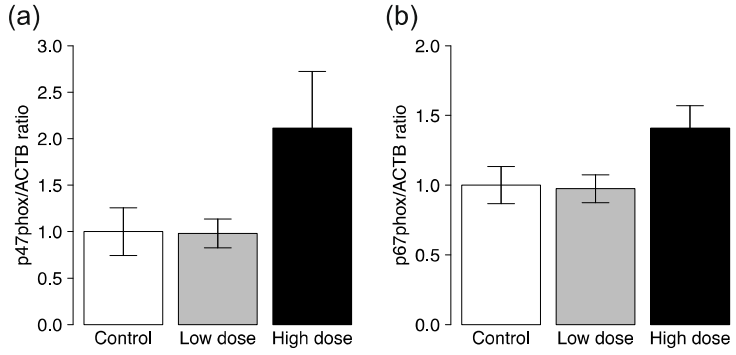

Figure S2. Gene expression levels of NADPH oxidase subunits in ApoE KO mice exposed to CS. The mRNA levels of (a) *p47phox* and (b) *p67phox* in the aortic tissues were determined by quantitative RT-PCR analysis. Data are normalized by the abundance of *β-actin* mRNA. Quantitative data are expressed relative to the values for the control group. Data are mean±SEM of six or seven animals per group.

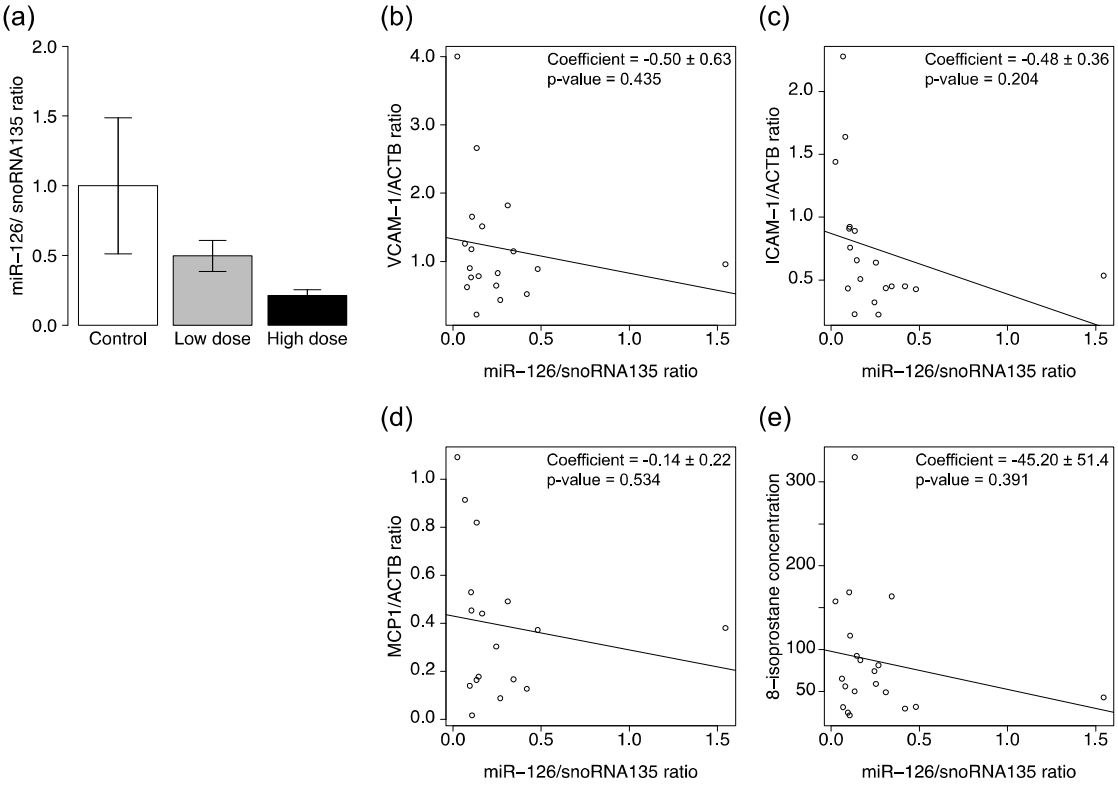

Figure S3. Expression levels of miRNAs in ApoE KO mice exposed to CS. The levels of (a) miR-126 in the aortic tissues were determined by quantitative RT-PCR analysis. Data are normalized by the abundance of snoRNA135. Quantitative data are expressed relative to the values for the control group. Data are mean±SEM of six or seven animals per group. The scatter plots showing the correlation between expression levels of miR-126 and (b) *VCAM-1*, (c) *ICAM-1*, (d) *MCP1*, and (e) creatinine adjusted level of 24-h urinary 8-iso-prostaglandin $F_{2\alpha}$. The coefficients and *p*-values were shown in the plots.

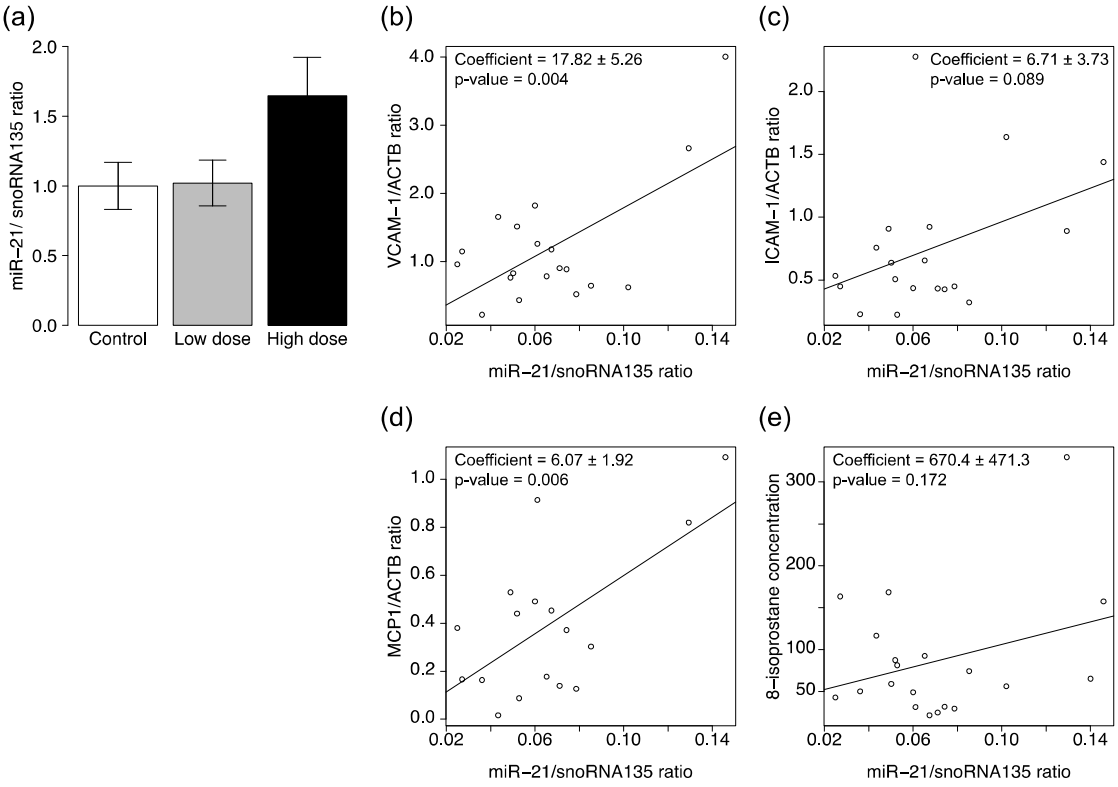

Figure S4. Expression levels of miRNAs in ApoE KO mice exposed to CS. The levels of (a) miR-21 in the aortic tissues were determined by quantitative RT-PCR analysis. Data are normalized by the abundance of snoRNA135. Quantitative data are expressed relative to the values for the control group. Data are mean±SEM of six or seven animals per group. The scatter plots showing the correlation between expression levels of miR-21 and (b) *VCAM-1*, (c) *ICAM-1*, (d) *MCP1*, and (e) creatinine adjusted level of 24-h urinary 8-iso-prostaglandin $F_{2\alpha}$. The coefficients and p-values were shown in the plots.