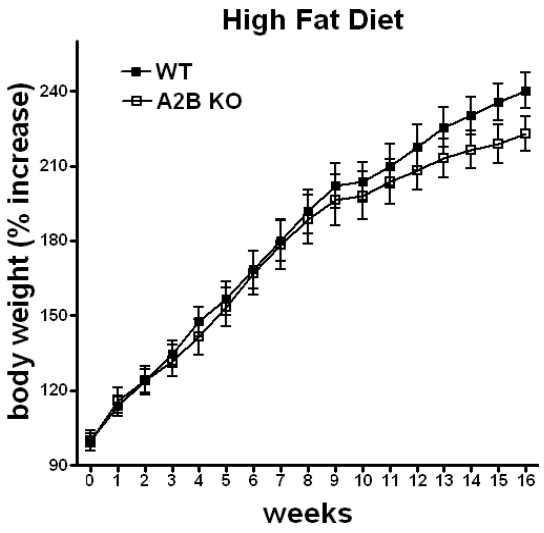
SUPPLEMENTARY DATA

Supplementary Table 1. Food consumption and weight of tissues of high fat diet (HFD)- fed $A_{2B}AR$ deficient mice.

	High Fat Diet	
	WT	A_{2B} KO
Epidydimal fat (g/body weight)	0.042±0.003	0.036±0.003
Retroperitoneal fat (g/body weight)	0.049±0.03	0.045±0.002
BAT (g/body weight)	0.011±0.001	0.011±0.001
Liver (g/body weight)	0.061±0.005	0.054±0.005

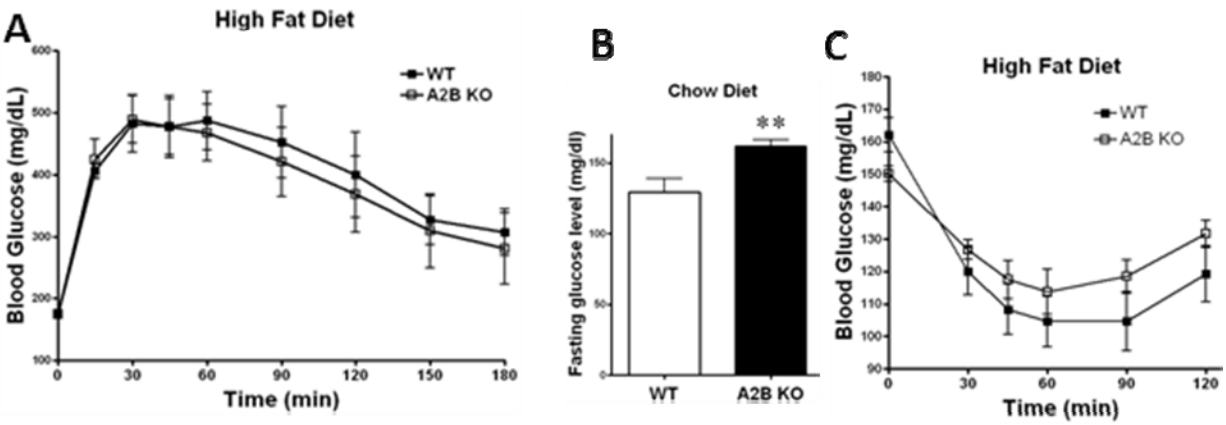
Abbreviation: BAT (brown adipose tissue).

Supplementary Figure 1. Body weight of HFD-fed WT and A_{2B} KO mice. Body weight of WT and A_{2B} KO mice during HFD. Results are representative of 3 experiments; *n* = 7-10 mice/group. Data are presented as mean ± SEM.

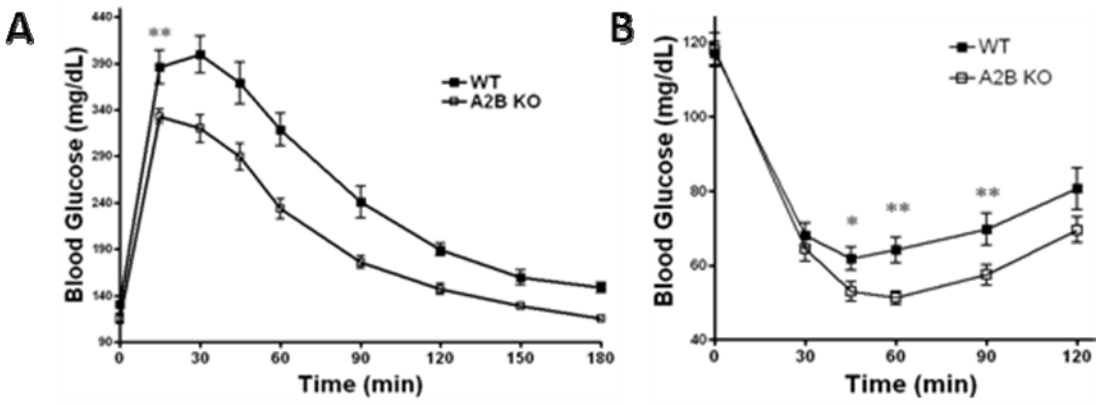


SUPPLEMENTARY DATA

Supplementary Figure 2. Fasting glucose levels ipGTT and ipITT of WT A_{2B} KO mice. . ipGTT (A), fasting glucose levels (B) and ipITT (C) were measured in high fat diet (HFD)- (A and C) or chow diet (CD)-fed (B) A_{2B} KO and WT mice following 14-hour-long fasting. Results are representative of 3 experiments; *n* = 7-10 mice/group. Data are presented as mean ± SEM. **p < 0.01 vs. WT animals.

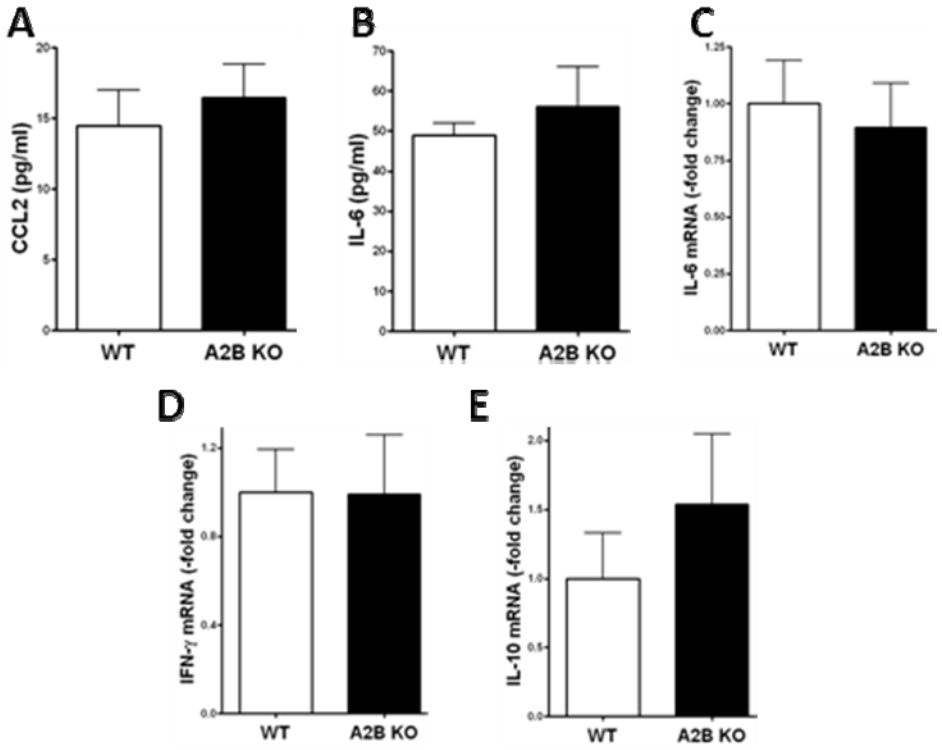


Supplementary Figure 3. ipGTT and ipITT in juvenile WT and A_{2B} KO animals. ipGTT (A) and ipITT (B) were measured in eight-week old A_{2B} KO and WT mice following 14-hour-long fasting. Results are representative of 2 experiments; *n* = 7-10 mice/group. Data are presented as mean ± SEM. *p < 0.05; and **p < 0.01 vs. WT controls.



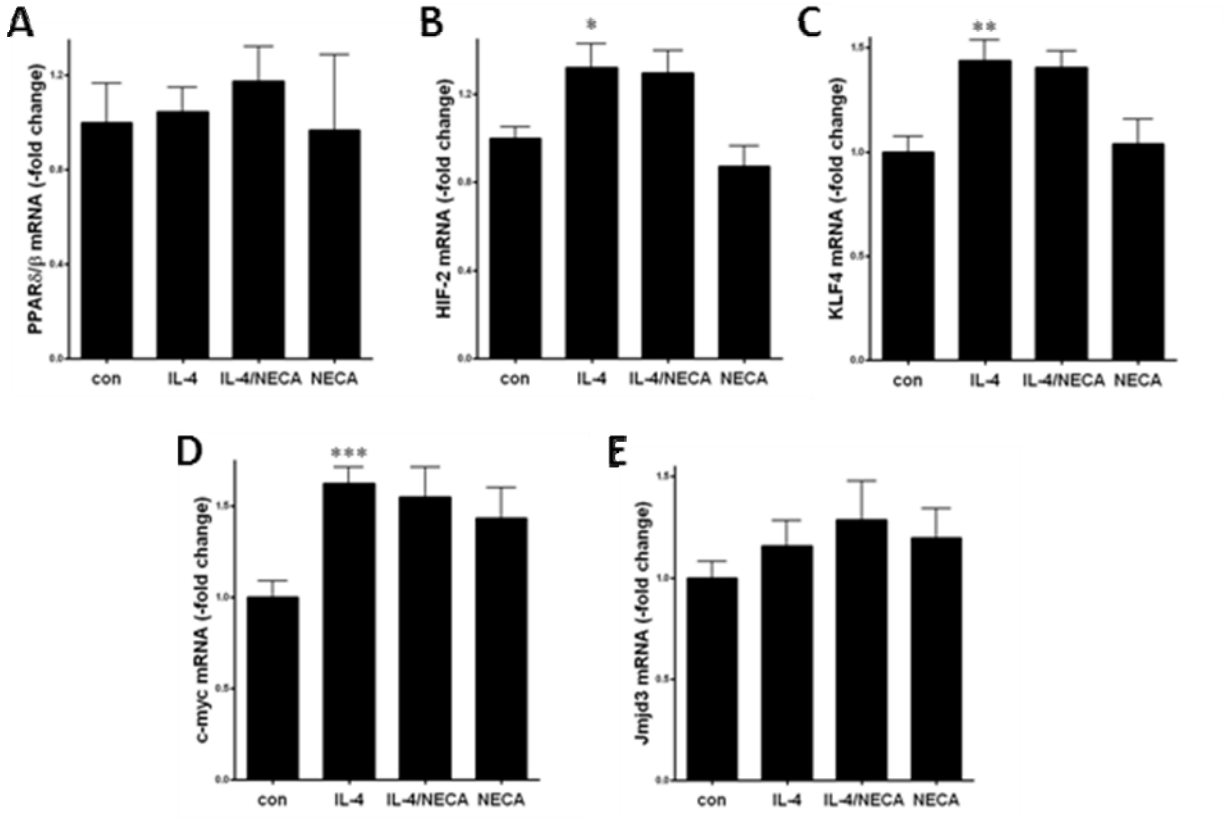
SUPPLEMENTARY DATA

Supplementary Figure 4. Plasma protein and adipose tissue mRNA levels of inflammatory mediators in CD-fed A_{2B} KO and WT mice. (A) Plasma levels of CCL2 in CD-fed WT and A_{2B} KO mice. (B) Plasma concentrations of IL-6 in CD-fed WT and A_{2B} KO mice. mRNA levels of IL-6 (C), IFN-γ (D), and IL-10 (E) in epididymal adipose tissue of CD-fed A_{2B} KO and WT animals. Results are representative of 3 experiments; *n* = 7-10 mice/group. Data are presented as mean ± SEM.



SUPPLEMENTARY DATA

Supplementary Figure 5. IL-4-induced aaMϕ-specific transcription factor expression in macrophages. mRNA expression of PPARδ/β (A), HIF-2 (B), KLF4 (C), c-myc (D), and Jmjd3 (E) in in RAW 264.7 macrophages after an 8-hour treatment with IL-4 and/or NECA. Results are representative of ≥3 experiments; *n* = 12-20/group. *p < 0.05; **p<0.01 ***p < 0.001 vs. control treatment.



SUPPLEMENTARY DATA

Supplementary Figure 6. NECA stimulation decreases TNF-α production in FFA- or LPS-induced RAW 264.7 macrophages. (A-C) Protein concentration of TNF-α from RAW 264.7 cells after 2 (A), 4 (B), and 8 (C) hour treatment with palmitate in the presence or absence of NECA. (D-F) Protein concentration of TNF-α from RAW 264.7 macrophages after 2 (D), 4 (E), and 8 (F) hour treatment with LPS in the presence or absence of NECA. Results are representative of ≥3 experiments; n = 3/group. Data are presented as mean ± SEM. *p < 0.05; **p < 0.01; and ***p < 0.001 vs. palmitate or LPS treatment.