

Supplementary materials

Table S1. List of TaqMan® probes.

Gene	Catalogue number	Gene	Catalogue number
Mouse		Human	
<i>Agtr1a</i>	Mm00616371_m1	<i>AGTR1</i>	Hs00258938_m1
<i>Agtr2</i>	Mm01341373_m1	<i>AGTR2</i>	Hs02621316_s1
<i>Mas1</i>	Mm01313002_m	<i>MAS1</i>	Hs00267157_s1
<i>Ccl5</i>	Mm01302427_m1		
<i>Ccl2</i>	Mm00441242_m1		
<i>Rn18s</i>	Mm03928990_g1		
<i>Icam1</i>	Mm00516023_m1		
<i>Cxcl10</i>	Mm00445235_m1		
<i>Cxcr3</i>	Mm99999054_s1		
<i>IL6</i>	Mm00446190_m1		
<i>Tnf-α</i>	Mm00443258_m1		

Table S2. List of human primers used for SybrGreen qPCR.

Gene	Forward primer sequence (5'→3')	Reverse primer sequence (5'→3')
<i>CCR7</i>	TGGTGGTGGCTCTCCTTGTC	TGTGGTGTTGTCTCCGATGTAATC
<i>MRC1</i>	ACCTCACAAGTATCCACACCATC	CTTTCATCACCACACAATCCTC
<i>CD209</i>	TCAAGCAGTATTGGAACAGAGGA	CAGGAGGCTGCGGACTTTTT
<i>CXCL10</i>	ATTTGCTGCCTTATCTTTCTG	TCTCACCTTCTTTTTTCATTGTAG
<i>IL1B</i>	TCCAGGGACAGGATATGGAG	TCTTTC AACACGCAGGACAG
<i>TNF</i>	AGCCCATGTTGTAGCAAACC	TGAGGTACAGGCCCTCTGAT
<i>MCP1</i>	CCCCAGTCACCTGCTGTTAT	AGATCTCCTTGCCACAATG

Table S3. Flow cytometry antibodies used

Antibody	Clone	Company
anti-CD45 PerCP	Clone 30-F11	BD Bioscience
anti-CD45 V450	Clone 30-F11	BD Bioscience
anti-CD3e APC	Clone 145-2C11	BD Bioscience
anti-CD8a PerCP	Clone 53-6.7	BD Bioscience
anti-CD4 APC-H7	Clone GK1.5	BD Bioscience
anti-CD19 APC-H7	Clone 1D3	BD Bioscience
anti-I-A[b] FITC	Clone AF6-120.1	BD Bioscience
anti-CD11b PE	Clone M1/70	BD Bioscience
anti-CD11c APC	Clone HL3	BD Bioscience
anti-Gr1 APC	Clone RB6-8C5	BD Bioscience
anti-NK-1.1 APC	Clone PK136	BD Bioscience
anti-CD11b APC-Cy7	Clone M1/70	BD Bioscience
anti-CD11c PE	Clone HL3	BD Bioscience
anti-CD206 FITC	Clone C068C2	BioLegend
anti-F4/80 APC	Clone BM8	eBioscience
anti-Ly6C PE	Clone AL-21	BD Bioscience
anti-Ly6G PE-Cy7	Clone 1A8	BD Bioscience
anti-CD43 FITC	Clone S7	BD Bioscience

Table S4. Mas receptor mRNA expression in pVAT WT and ApoE^{-/-} (n=6-10), in aorta and pVAT from ApoE^{-/-} (n=6) and upon THP-1 cell activation (n=5)

Gene	Description	Fold change	p value
<i>Mas1</i>	C57BL/6J	1.00	
	ApoE ^{-/-}	1.79	0.11
<i>Mas1</i>	ApoE ^{-/-} aorta	1.00	
	ApoE ^{-/-} pVAT	5.21	0.008
<i>Mas1</i>	THP-1	1.00	
	THP-1 + TNF-α	1.21	0.89

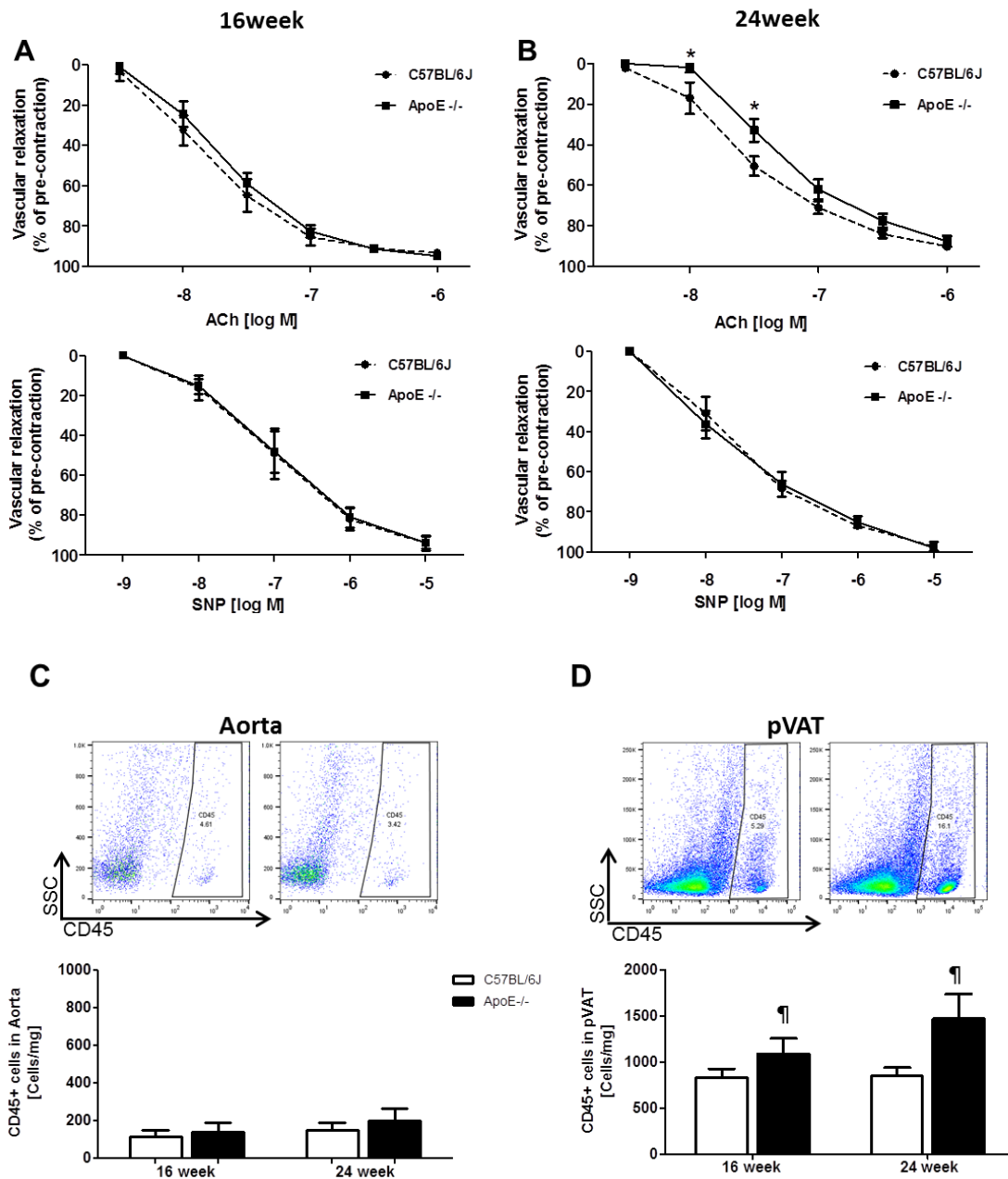


Figure Suppl. 2. At early stage of atherosclerosis in ApoE^{-/-} mice there is no impairment of endothelium-dependent NO bioavailability and visible inflammation in aorta whereas increase of inflammatory cells infiltration is evident in perivascular adipose tissue. (A, B) Vascular relaxation endothelial dependent (ACh) and independent (SNP) were analysed in C57BL/6J and ApoE^{-/-} mice at (A) 16 weeks and (B) 24 weeks of age (n=5) (C, D) Representative flow cytometric analysis of leukocytes infiltration to (C) aorta and (D) periaortic adipose tissue in C57BL/6J and ApoE^{-/-} mice at 24 weeks of age. Leukocytes infiltration was calculated as a cell number per mg of tissue. **p*<0.05 by T test.

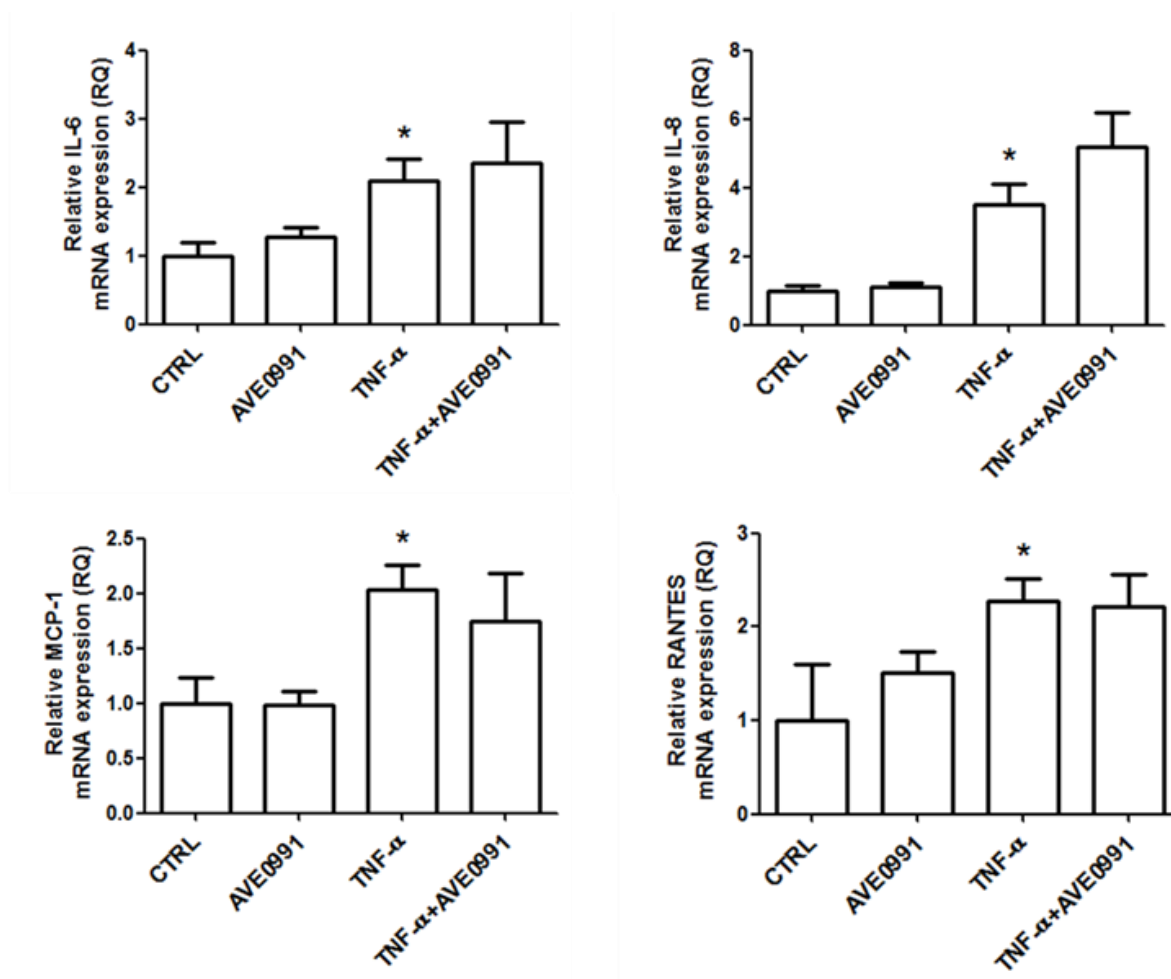


Figure Suppl. 3. Effect of AVE0991 on TNF- α activated human vascular smooth muscle cells (HVSMC) cytokine and chemokine mRNA expression. Expression of selected proinflammatory mRNA cytokines and chemokines in HVSM cells stimulated with TNF- α (10 ng cm^{-3}) in presence of AVE0991 ($1\mu\text{M}$) and/or Mas receptor inhibitor A779 ($5\mu\text{M}$) ($n=5$). * $p<0.05$ vs CTRL (control) by T test.