

SUPPLEMENTAL MATERIAL

Loss of p27 phosphorylation at Ser10 accelerates early atherogenesis by promoting leukocyte recruitment via RhoA/ROCK

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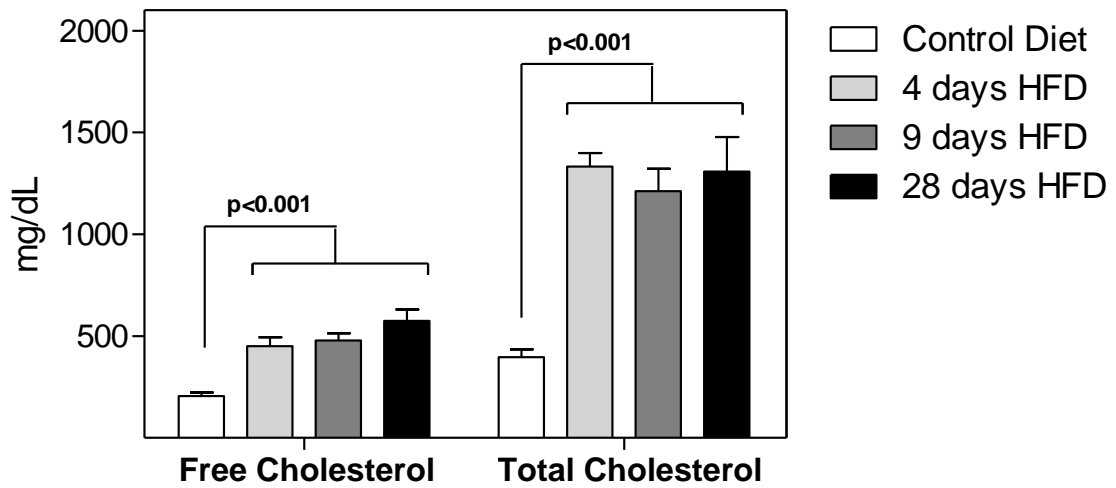


Figure S1: Free and total cholesterol levels in serum of apoE^{-/-} mice fed either control diet or high-fat diet (HFD) for 4, 9 and 28 days. Five mice were analyzed per each condition.

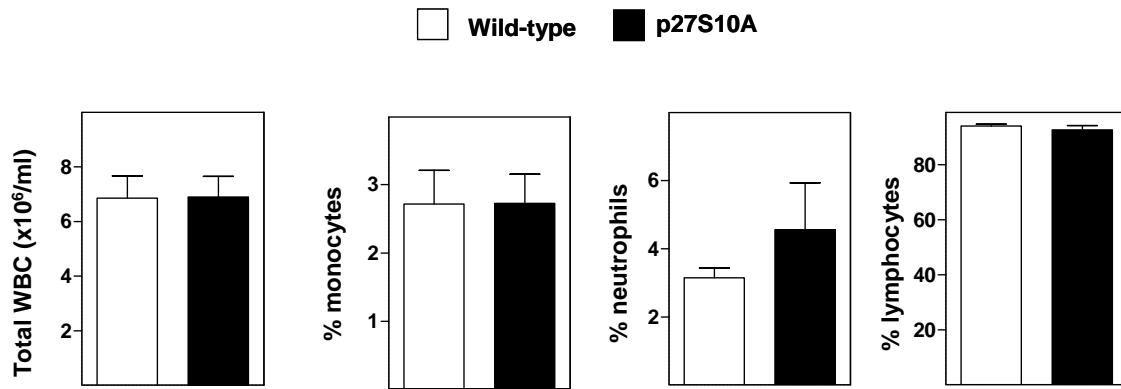


Figure S2: Lack of phosphorylation at Ser10 does not affect total number of circulating white blood cells (WBC) and percentage of monocytes, neutrophils and lymphocytes. Analysis was performed with blood obtained from 8-week-old wild-type and p27S10A mice (n=5 each genotype).

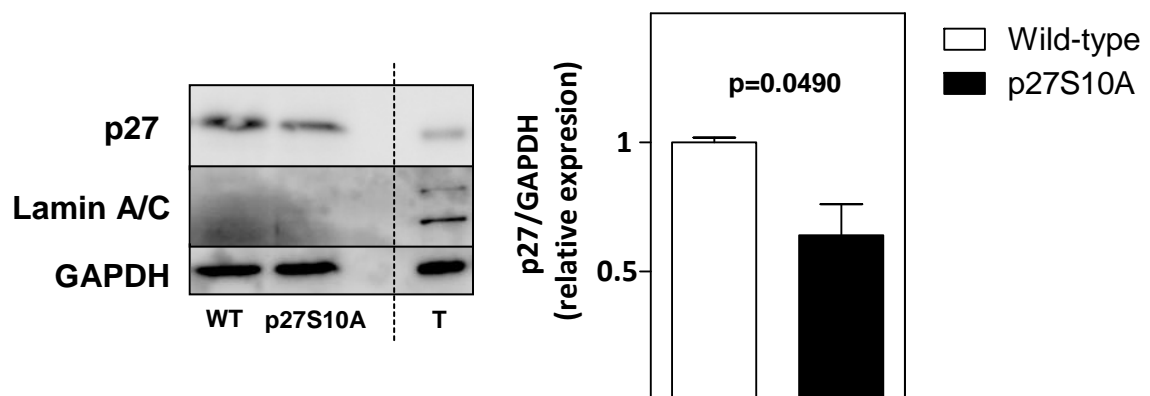


Figure S3: Expression of p27Ser10Ala is associated with reduced level of cytoplasmic p27. Western blot to examine p27 levels in cytoplasmic extracts of mAECs obtained from wild-type and p27Ser10Ala mice. Expression of nuclear Lamin A/C and cytoplasmic GAPDH was analyzed to check the quality of cytoplasmic extracts. Note that all proteins were detected in total protein extract (T). Two independent mAEC cultures of each genotype (each prepared from a pool of 6 aortas) were analyzed in two western blots and quantified essentially as described in Figure 3. One representative blot of one of the two mAEC cultures of each genotype is shown.

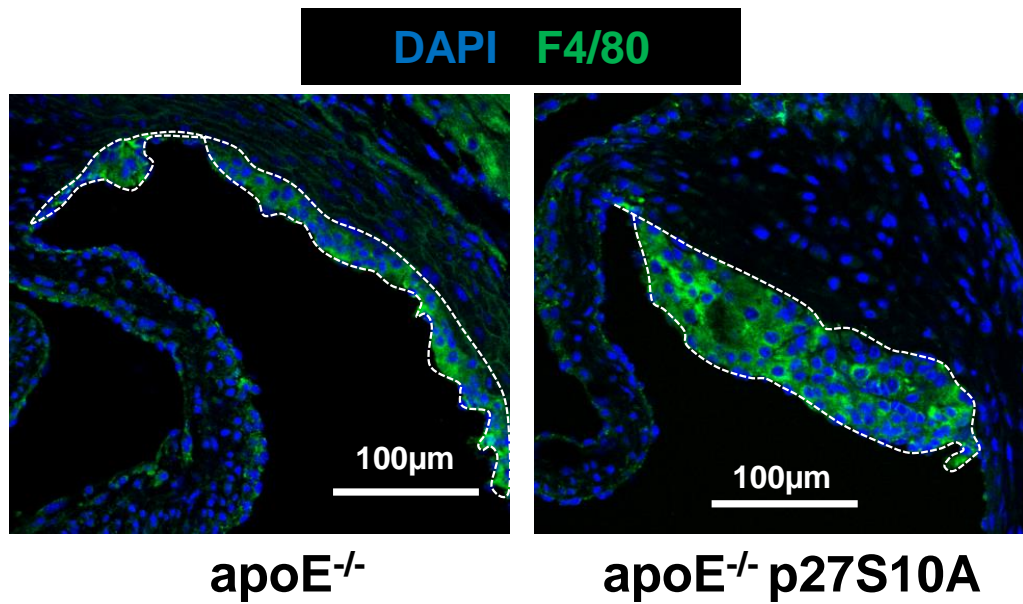


Figure S4: Early atherosclerotic lesions consisting of fatty streaks containing predominantly F4/80-immunoreactive macrophages. Representative images of F4-80 positive macrophages in aortic sinus sections of apoE^{-/-} and apoE^{-/-} p27S10A mice challenged for 4 weeks with HFD (shown in green). Nuclei were counterstained with DAPI shown in blue).