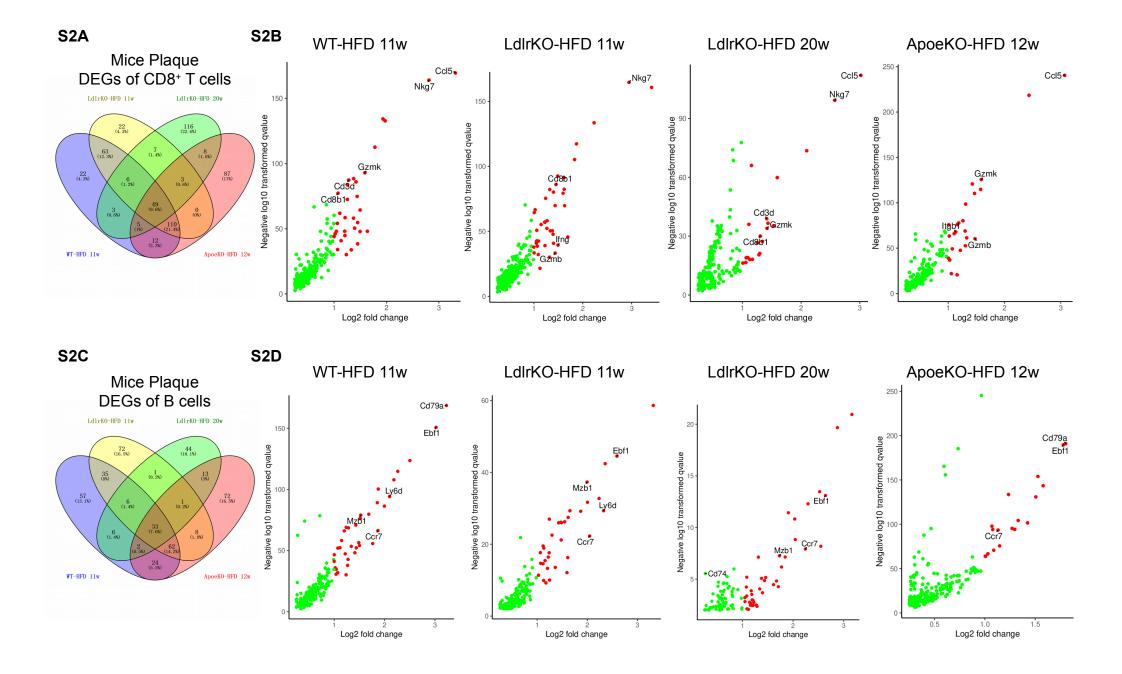
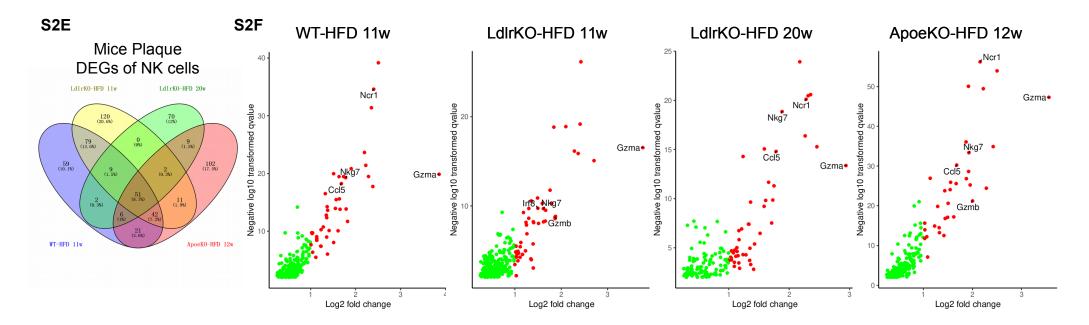


sFigure 1. Clinical characteristics of human.

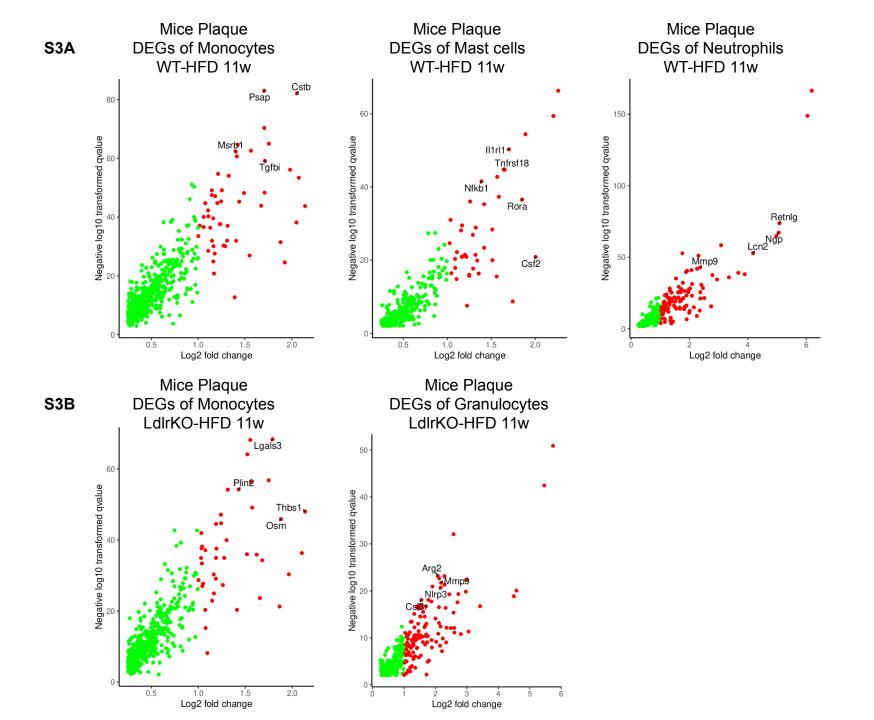
- (A) Statistics of human age; atherosclerosis patients without asymptomatic (stroke) within 6 months (as ASYM; n = 29); recent stroke patients (as SYM; n = 17).
- (B) Lymphocytes in human blood by Blood Routine Tests. (ASYM n = 29; SYM n = 17).
- (C) The concentration of triglycerides in human plasma (mg/dL). (ASYM n = 29; SYM n = 17).
- (D) The concentration of Low-Density Lipoprotein in human plasma (mg/dL). (ASYM n = 29; SYM n = 17).
- (E) The concentration of High-Density Lipoprotein in human plasma (mg/dL). (ASYM n = 29; SYM n = 17).
- (F) The ratio of LDL/HDL in human. (ASYM n = 29; SYM n = 17).

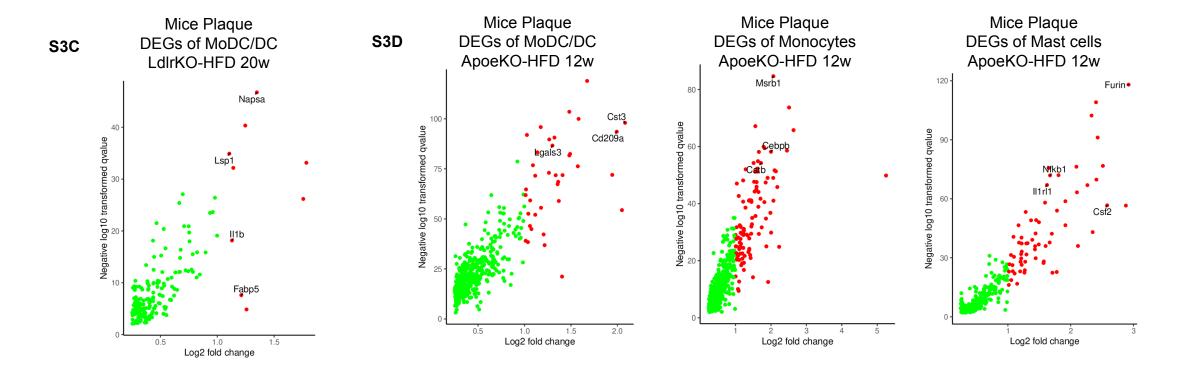




sFigure 2. gene expression of T cells in mice with atherosclerosis

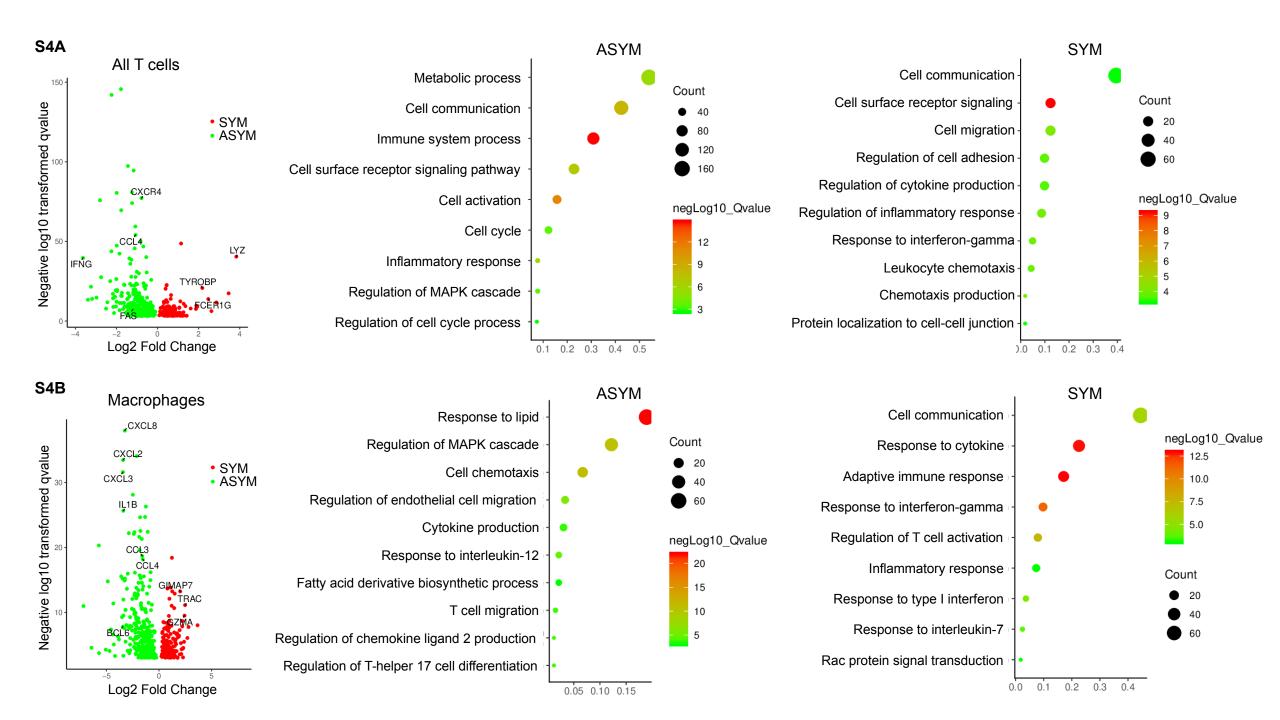
- (A) Venny picture showed DEG (Differentially Expressed Gene) of CD8⁺ T cells in atherosclerotic plaque among wild type mice, Ldlr-deficiency mice, Apoe-deficiency mice with high fat diet.
- (B) Volcano plot showed selected differentially expressed genes in diverse mice plaque of sFigure 1A.
- (C) Venny picture showed DEG of B cells in atherosclerotic plaque among wild type mice, Ldlr-deficiency mice, Apoe-deficiency mice with high fat diet.
- (D) Volcano plot showed selected differentially expressed genes in diverse mice plaque of sFigure 1C.
- (E) Venny picture showed DEG of NK cells in atherosclerotic plaque among wild type mice, Ldlr-deficiency mice, Apoe-deficiency mice with high fat diet.
- (F) Volcano plot showed selected differentially expressed genes in diverse mice plaque of sFigure 1E.

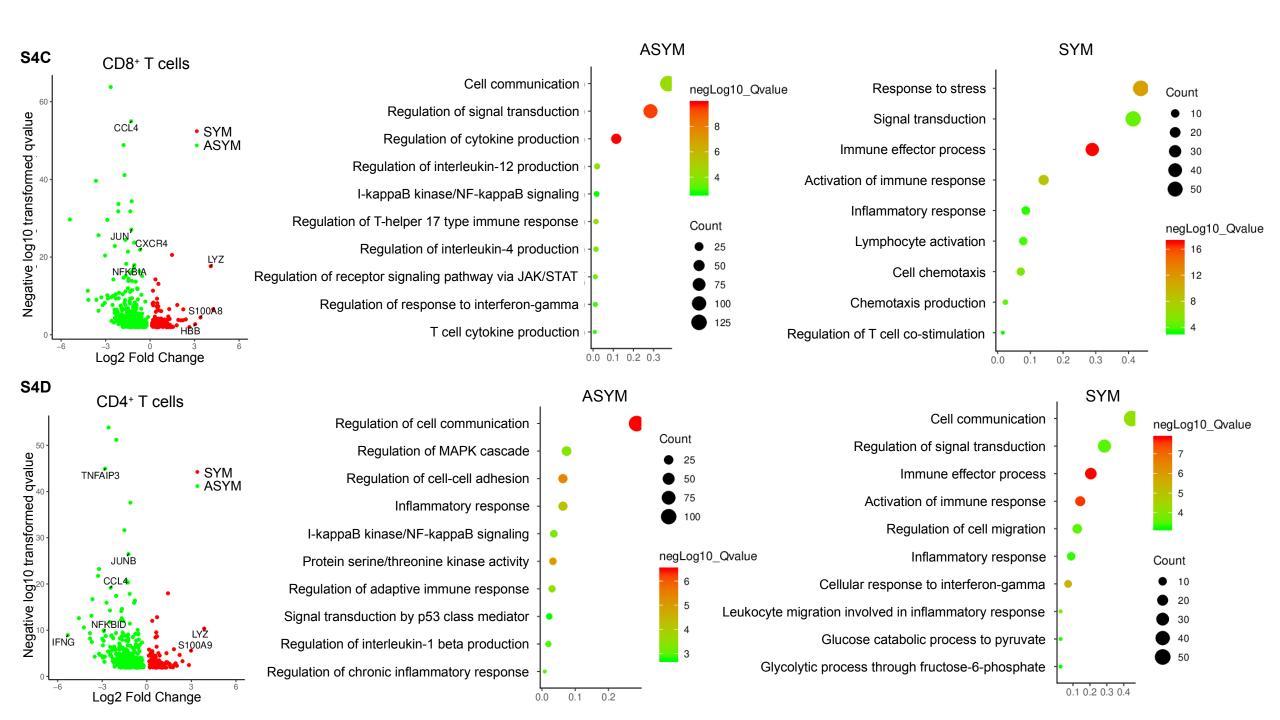




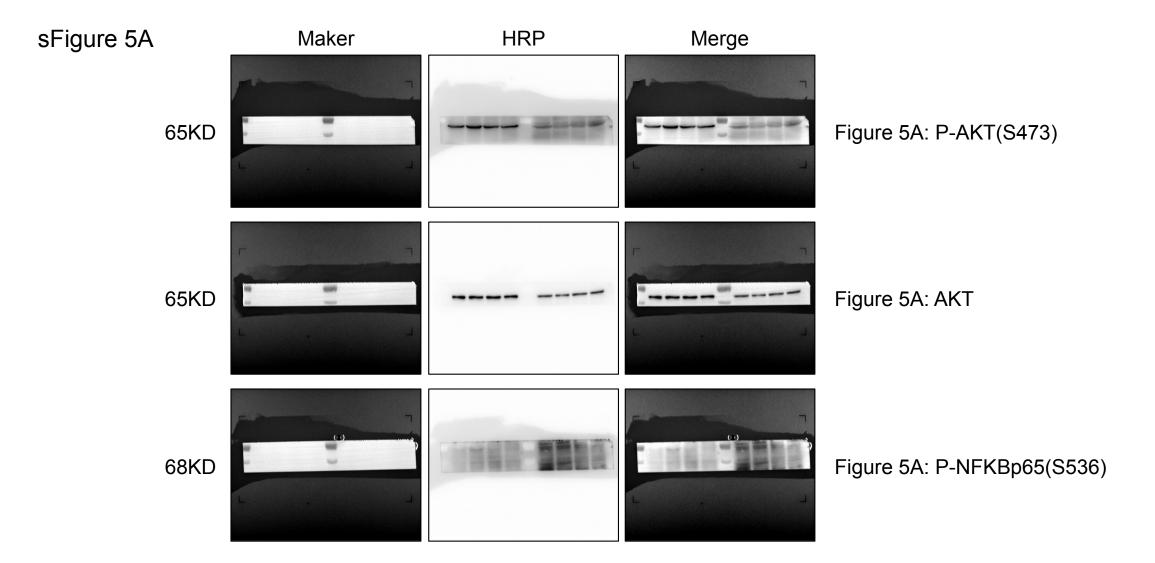
sFigure 3. gene expression of other immune cells in mice with atherosclerosis

- (A) Volcano plot showed selected differentially expressed genes in WT mice with 11 weeks HFD. Monocytes, mast cells and Neutrophils.
- (B) Volcano plot showed selected differentially expressed genes in Ldlr-deficiency mice with 11 weeks HFD. Monocytes and Granulocytes.
- (C) Volcano plot showed selected differentially expressed genes in Ldlr-deficiency mice with 20 weeks HFD. Monocytes-driven dendric cells.
- (D) Volcano plot showed selected differentially expressed genes in *Apoe*-deficiency mice with 12 weeks HFD. Monocytes-driven dendric cells, Monocytes and mast cells.



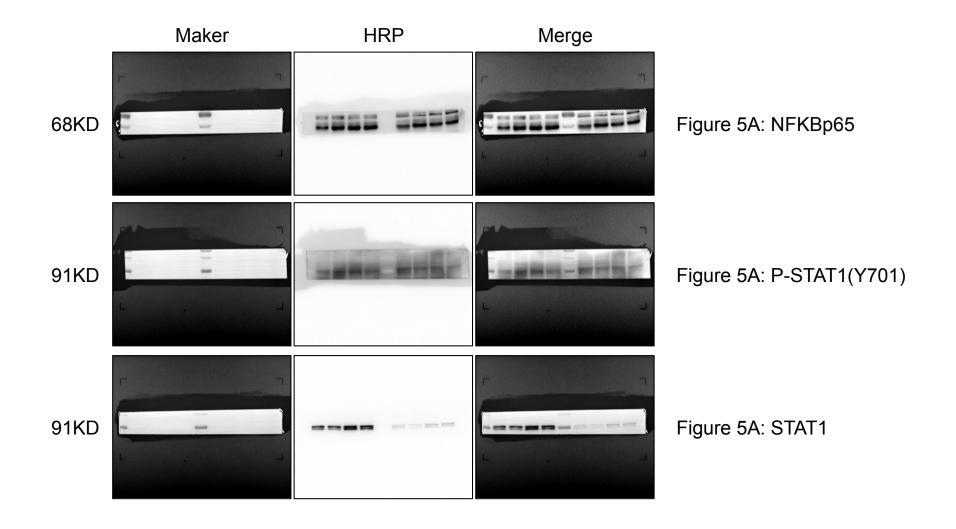


- sFigure 4. gene expression of T cells in human with atherosclerosis
- (A) Volcano plot showed selected differentially expressed genes in human and Gene Ontology pathway analysis. All T cells from ASYM and SYM.
- (B) Volcano plot showed selected differentially expressed genes in human and Gene Ontology pathway analysis. macrophages from ASYM and SYM.
- (C) Volcano plot showed selected differentially expressed genes in human and Gene Ontology pathway analysis. CD8⁺ T cells from ASYM and SYM.
- (D) Volcano plot showed selected differentially expressed genes in human and Gene Ontology pathway analysis. CD4+ T cells from ASYM and SYM.

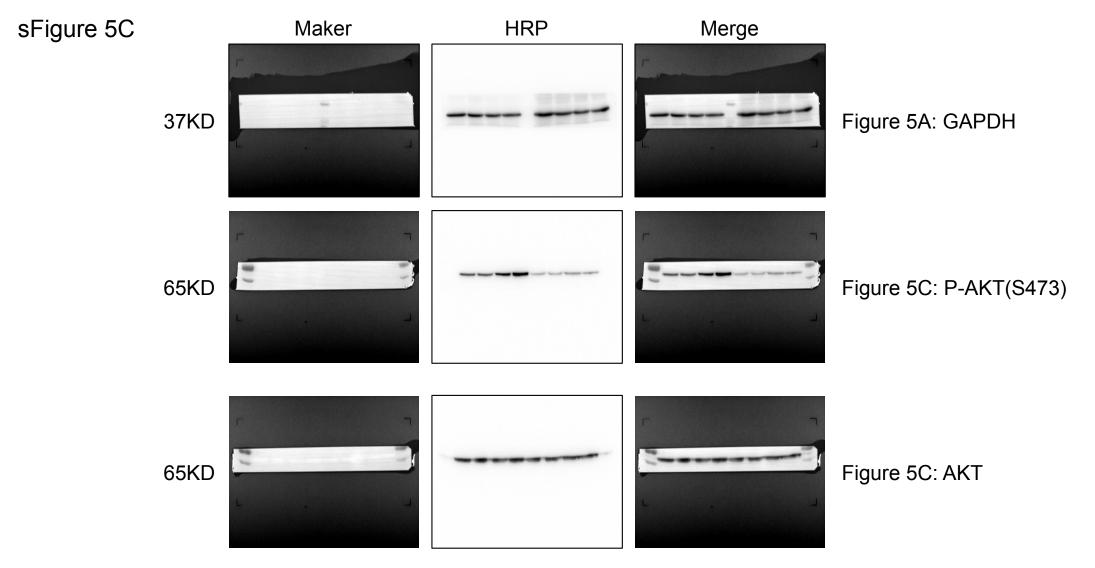


sFigure 5A. Uncropped images of the western blots presented in the Fig.5A Maker: PageRuler™ Prestained Protein Ladder, 10 to 180 kDa (#26616, Thermo). HRP: Images were acquired using Tanon 5200 by chemiluminescence function. Merge: Combine the Marker and HRP images by Tanon software.

sFigure 5B



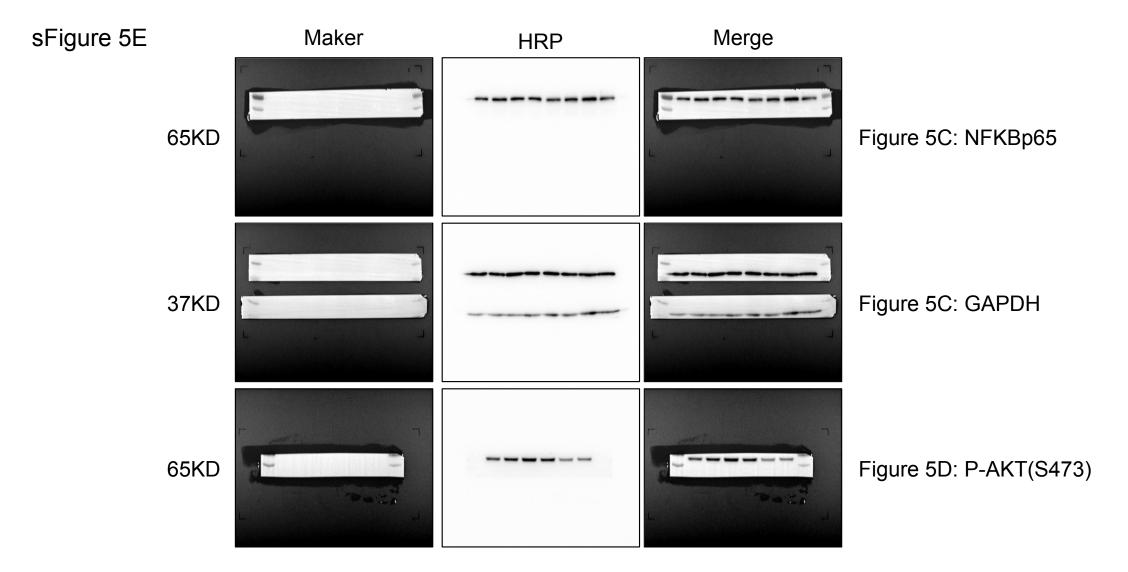
sFigure 5B. Uncropped images of the western blots presented in the Fig.5A Maker: PageRuler™ Prestained Protein Ladder, 10 to 180 kDa (#26616, Thermo). HRP: Images were acquired using Tanon 5200 by chemiluminescence function. Merge: Combine the Marker and HRP images by Tanon software.



sFigure 5C. Uncropped images of the western blots presented in the Fig.5A & Fig. 5C Maker: PageRuler™ Prestained Protein Ladder, 10 to 180 kDa (#26616, Thermo). HRP: Images were acquired using Tanon 5200 by chemiluminescence function. Merge: Combine the Marker and HRP images by Tanon software.

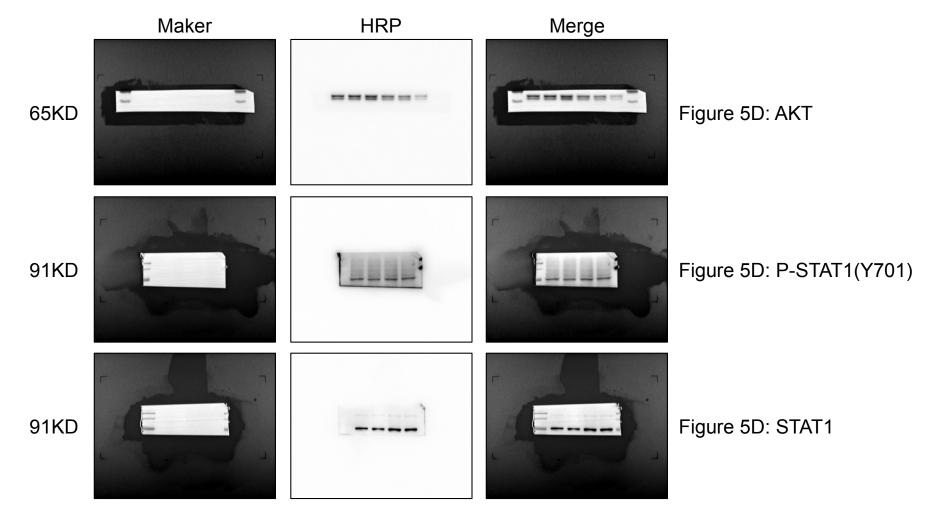
sFigure 5D Maker HRP Merge 91KD Figure 5C: P-STAT1(Y701) 91KD Figure 5C: STAT1 65KD Figure 5C: P-NFKBp65(S536)

sFigure 5D. Uncropped images of the western blots presented in the Fig.5C Maker: PageRuler™ Prestained Protein Ladder, 10 to 180 kDa (#26616, Thermo). HRP: Images were acquired using Tanon 5200 by chemiluminescence function. Merge: Combine the Marker and HRP images by Tanon software.



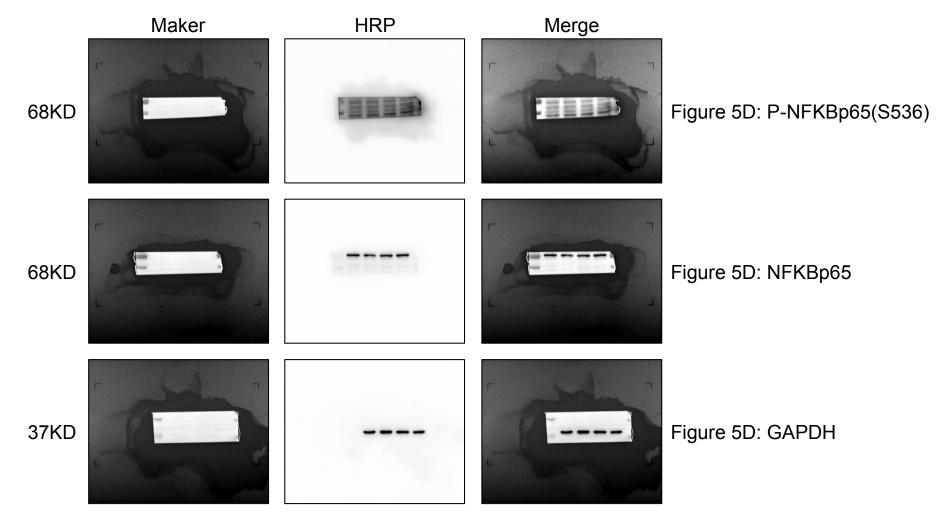
sFigure 5E. Uncropped images of the western blots presented in the Fig.5C & Fig.5D Maker: PageRuler™ Prestained Protein Ladder, 10 to 180 kDa (#26616, Thermo). HRP: Images were acquired using Tanon 5200 by chemiluminescence function. Merge: Combine the Marker and HRP images by Tanon software.

sFigure 5F



sFigure 5F. Uncropped images of the western blots presented in the Fig.5D Maker: PageRuler™ Prestained Protein Ladder, 10 to 180 kDa (#26616, Thermo). HRP: Images were acquired using Tanon 5200 by chemiluminescence function. Merge: Combine the Marker and HRP images by Tanon software.

sFigure 5G



sFigure 5G. Uncropped images of the western blots presented in the Fig.5D Maker: PageRuler™ Prestained Protein Ladder, 10 to 180 kDa (#26616, Thermo). HRP: Images were acquired using Tanon 5200 by chemiluminescence function. Merge: Combine the Marker and HRP images by Tanon software.

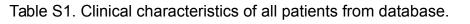


Table S2. The proportion of cell types in the results of single cell sequencing.

Table S3. Top 500 Differentially Expressed Genes in T cells/CD8+/CD4+/Macrophages of patients (ASYM and SYM).

Table S4. Top 500 Differentially Expressed Genes in T cells/CD8+/CD4+ of SYM (plaques and blood)

Table S5. GO pathway analysis of T cells/CD8+/CD4+/Macrophages in patients (ASYM and SYM).

Table S6. GO pathway analysis of T cells/CD8+/CD4+ in SYM (plaques and blood).