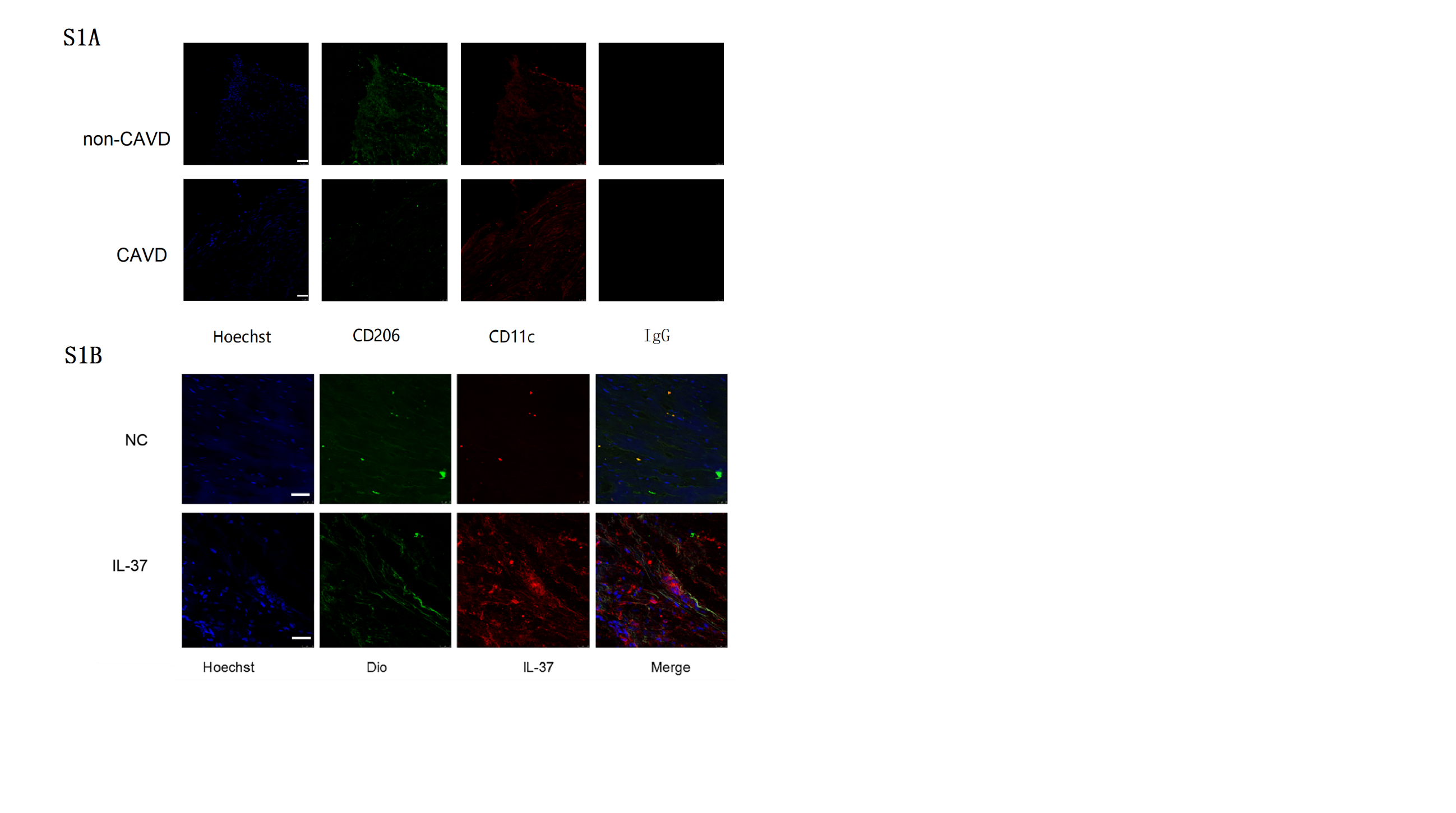
Supplementary Material

## Supplementary Figures



## 

**Supplementary Figure 1.** Calcified aortic valves show more M1 infiltration than M2 while non-calcified aortic valves show the opposite. **(A)** Representativeimages show that there are less CD11c+ cells (M1 macrophages) than CD206+ cells (M2 macrophages) accumulation in non-calcified aortic valves, while calcified aortic valves show more CD11c+ cells (M1 macrophages) than CD206+ cells . **(B)** IL-37 staining in non-calcified aortic valves indicates that IL-37 locates both intracellularly and extracellularly. IF, Immunofluorescence; IgG: isotype control,NC, negative control; Dio, 3,3′-dioctadecyloxacarbocyanine perchlorate; scale bar, 25μm.

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**Supplementary Figure 2.** Calcified aortic valve tissues show more M1 macrophage infiltration and less IL-37 expression. **(A)** Representative images show that there are more M1 macrophage infiltration and less CD206 expression in calcified aortic valve; scale bar, 100μm. HE, hematoxylin-eosin; IHC, Immunohistochemistry. **(B)** Representative western blots show the expression of iNOS (M1 marker), CD206 (M2 marker) and IL-37 in non-calcified and calcified aortic valves; n=3. **(C)** Densitometric data show the expression of iNOS , CD206 , IL-37 in non-calcified and calcified aortic valve tissues; \*P < 0.05, \*\*P < 0.01.

Supplementary 3

**Supplementary Figure 3.** Recombinant human IL-37 inhibits NF-κB activation induced by LPS and IFN-γ co-treatment. **(A-B)** Representative western blots and densitometric data show that IL-37 inhibits NF-κB phosphorylation at different time points; n=3; \*\*\*P < 0.001.