

Figure S1 CD11c⁺LPM in colon significantly increased when the lysosome decreased. (A) The infiltration of CD11c⁺M ϕ in colonic mucosa in UC patients (IF, 200 \times). (B) The lysosome of CD11c⁺LPM in colitis rats (Fluorescence staining, 400 \times). UC: Ulcerative colitis; LPMC: Lamina propria mononuclear cells; LPM: Lamina propria macrophages; DAPI: DAPI dihydrochloride. Con: Control group; Mod: Model group; LSKL: an inhibitor of Thrombospondin (TSP-1).

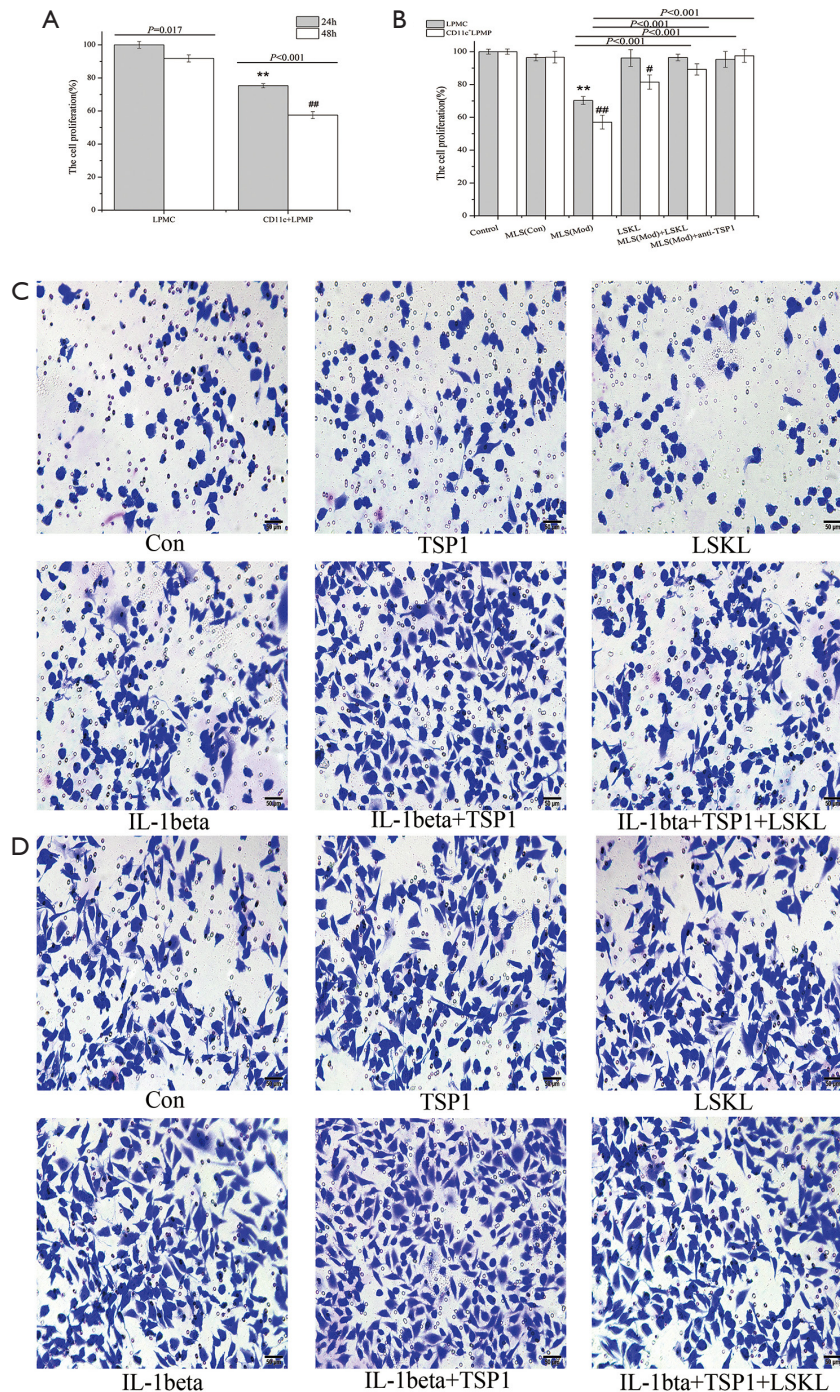


Figure S2 Increased TSP1 protein in MLS from colitis did not directly promote migration as IL-1 β , but enhanced the effect of IL-1 β on migration and inhibited the cell proliferation of LPMC and CD11c⁺LPMP. A: The cell proliferation of LPMC and CD11c⁺LPMP. B: the effect of MLS on the cell proliferation of LPMC and CD11c⁺LPMP. C-D: The migration of LPMC and CD11c⁺LPMP induced by IL-1 β (300 pg/mL) could be greatly enhanced by increasing TSP1 protein in culture medium. MLS, mucosal lysis supernatant; LPMC, lamina propria mononuclear cells (Trypan Blue, 100 \times). (** P <0.001, # P <0.05, ## P <0.001, vs. LPMC(Con)). MLS: Mucosal lysis supernatant; IL: Interleukin; Con: Control group; TSP1: group treated with TSP1 protein; LSKL: an inhibitor of Thrombospondin (TSP-1); LPMC: Lamina propria mononuclear cells; LPMP: Lamina propria macrophages.

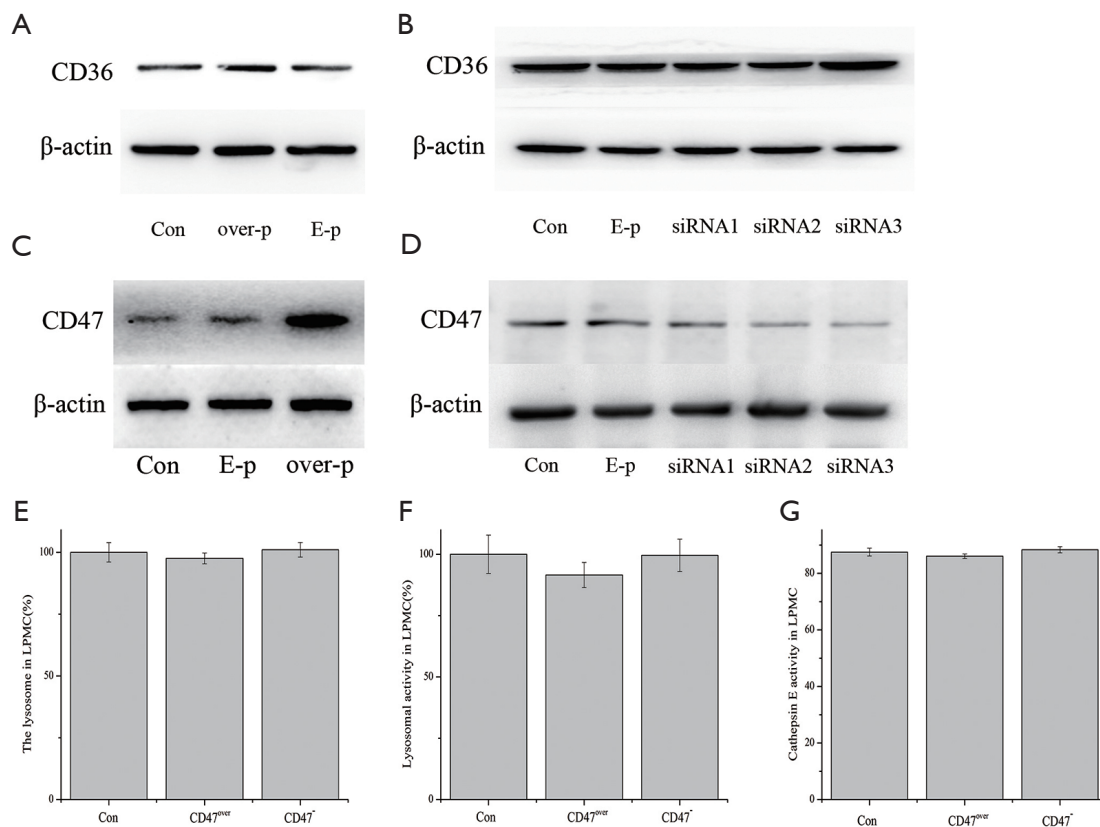


Figure S3 The expression of *CD36* and *CD47* could be regulated by the silencing and over-expression plasmids, and the effect of TSP1 protein on lysosome could be regulated by *CD47*. A: the expression of *CD36* was down-regulated by *CD36* plasmid (siRNA 2). B: The expression of *CD36* protein could be significantly up-regulated by *CD36*^{over} plasmid. C: The expression of *CD47* protein could be significantly up-regulated by *CD47*^{over} plasmid. D: The expression of *CD47* protein could be down-regulated by *CD47*^{over} plasmid (2 and 3). E-G: *CD47*^{over} plasmid and *CD47* plasmid almost no effect on the lysosome, lysosomal activity, and Cathepsin E activity in LPMC. Con: Control; E-p: Empty plasmid; over-p: *CD36*-overexpression plasmid (A) and *CD47*-expression plasmid (C); siRNA: *CD36* silencing plasmid (B) and *CD47* silencing plasmid (D); *CD47*^{over}: *CD47*-overexpression plasmid; *CD47*⁻: *CD47* silencing plasmid.

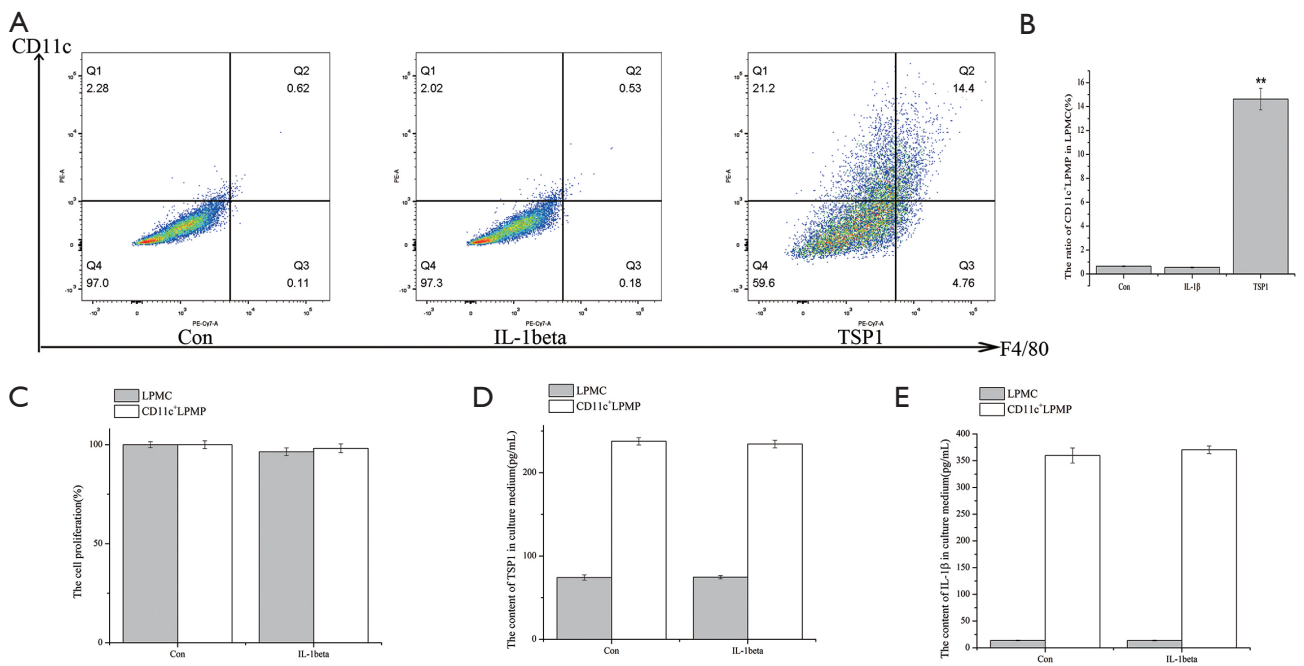


Figure S4 IL-1 β had no effect on the proliferation and differentiation of LPMC. B: The differentiation of LPMC to CD11c⁺LPMP. C-E; The cell proliferation of LPMC, the expression of TSP1 and IL-1 β protein in LPMC treated with IL-1 β . (** $P < 0.001$, vs. Con). IL: Interleukin; Con: Control group; TSP1: group treated with TSP1 protein; IL-1 β : group treated with IL-1 β ; LPMC: Lamina propria mononuclear cells; LPMP: Lamina propria macrophages.