**Figure S1** CD11c^+^LPMP in colon significantly increased when the lysosome decreased. (A) The infiltration of CD11c^+^Mφ in colonic mucosa in UC patients (IF, 200×). (B) The lysosome of CD11c^+^LPMP in colitis rats (Fluorescence staining, 400×). UC: Ulcerative colitis; LPMC: Lamina propria mononuclear cells; LPMP: 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-1β, but enhanced the effect of IL-1β 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-1β (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, 100x); **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-expression plasmid. C: The expression of CD47 protein could be significantly up-regulated by CD47 over-expression plasmid. D: The expression of CD47 protein could be down-regulated by CD47 silencing plasmid (2 and 3). E-G: CD47 over-expression plasmid and CD47 silencing plasmid almost no effect on the lysosome, lysosomal activity, and Cathepsin E activity in LPMC. Con: Control; E-p: Empty plasmid; over-p: CD36-overpression plasmid (A) and CD47-expression plasmid (C); siRNA: CD36 silencing plasmid (B) and Cd47 silencing plasmid (D); CD47over: CD47-overexpression plasmid; CD47: CD47 silencing plasmid.
Figure S4 IL-1β 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-1β protein in LPMC treated with IL-1β (**P<0.001, vs. Con). IL: Interleukin; Con: Control group; TSP1: group treated with TSP1 protein; IL-1beta: group treated with IL-1beta; LPMC: Lamina propria mononuclear cells; LPMP: Lamina propria macrophages.