Supplementary Material

## Supplementary Figures



**Supplementary Figure 1.** Q-PCR analysis of miR-100-5p levels in LGs collected from rabbits in the untreated and hUC-MSC-sEVs group. n = 6 rabbits per group. Data were shown as mean± SD. \*\*P < 0.01.

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**Supplementary Figure 2.** The direct effect of miR-100-5p on macrophage polarization. LPS+IFN-γ-stimulated Mac was transfected with miR-100-5p mimics or NC mimics for 48h. (A) Gene expression profiles of M1 markers (NOS2, IRF5, TNF-α, IL-1β and IL-6) and M2 markers (Arg1, CD206, KLF4, IL-10 and TGF-β). (B) Western blot to assess protein levels of NOS2 and Arg1. Data were from at least three independent experiments and presented as mean± SD. \*P < 0.05, \*\*P < 0.01, NS = not significant.



**Supplementary Figure 3.** (A) Q-PCR analysis of miR-100-5p levels in miR-100-5p inhibitor-sEVs and NC inhibitor-sEVs. (B) Q-PCR analysis of miR-100-5p levels in miR-100-5p mimics-sEVs and NC mimics-sEVs. NC: negative-control. Data were from three independent experiments and presented as mean± SD. \*P < 0.05, \*\*\*P < 0.001.



**Supplementary Figure 4.** (A-B) LPS+IFN-γ-stimulated Mac was co-cultured with miR-100-5p mimics-sEVs or NC mimics-sEVs for 48h. (A) Q-PCR analysis of M1 markers (NOS2, IRF5, TNF-α, IL-1β and IL-6) and M2 markers (Arg1, CD206, KLF4, IL-10 and TGF-β). (B) Protein analysis for NOS2 and Arg1. (C) Mac pretreated with miR-100-5p mimics-sEVs or NC mimics-sEVs were co-cultured with human CD4+ T cells stimulated by anti-CD3/-CD28. Flow cytometry analysis was performed for CD4+Foxp3+ T cells. sEVs, hUC-MSC-sEVs; LPS+IFN-γ-stim., LPS+IFN-γ-stimulation. NC: negative-control. Representative data from at least three independent experiments were presented as mean± SD. \*P < 0.05, \*\*P < 0.01, \*\*\*P < 0.001, NS = not significant.