

Supplement Data

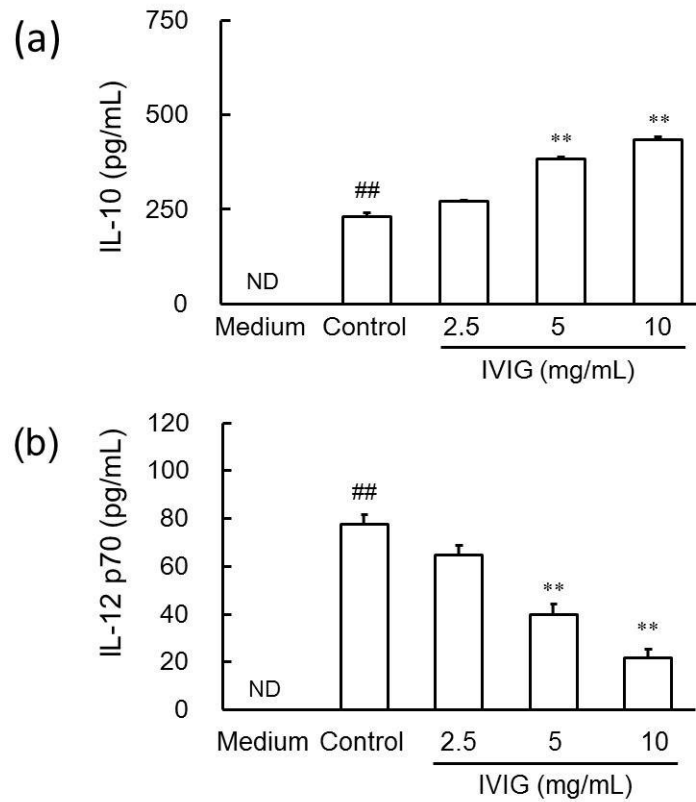


Figure S1: IVIG increased IL-10 production whereas decreased IL-12p70 production in BMDC stimulated with LPS.

Cells were stimulated with LPS (1 $\mu\text{g}/\text{mL}$) in the presence of IVIG for 6 h. Cytokine concentrations in the culture medium were determined using respective ELISA kits. (a) Production of IL-10; (b) Production of IL-12p70. Results were expressed as mean \pm SEM (n=3). $^{\#\#}p<0.01$, significantly different from the medium alone (without LPS stimulation, Student's t-test); $^{**}p<0.01$, significantly different from the Control (LPS stimulation without IVIG, Dunnett's multiple comparison test); ND, IL-10 concentrations were under the lower limit values of the standard ELISA curves. At least three independent experiments were conducted and representative results were shown.

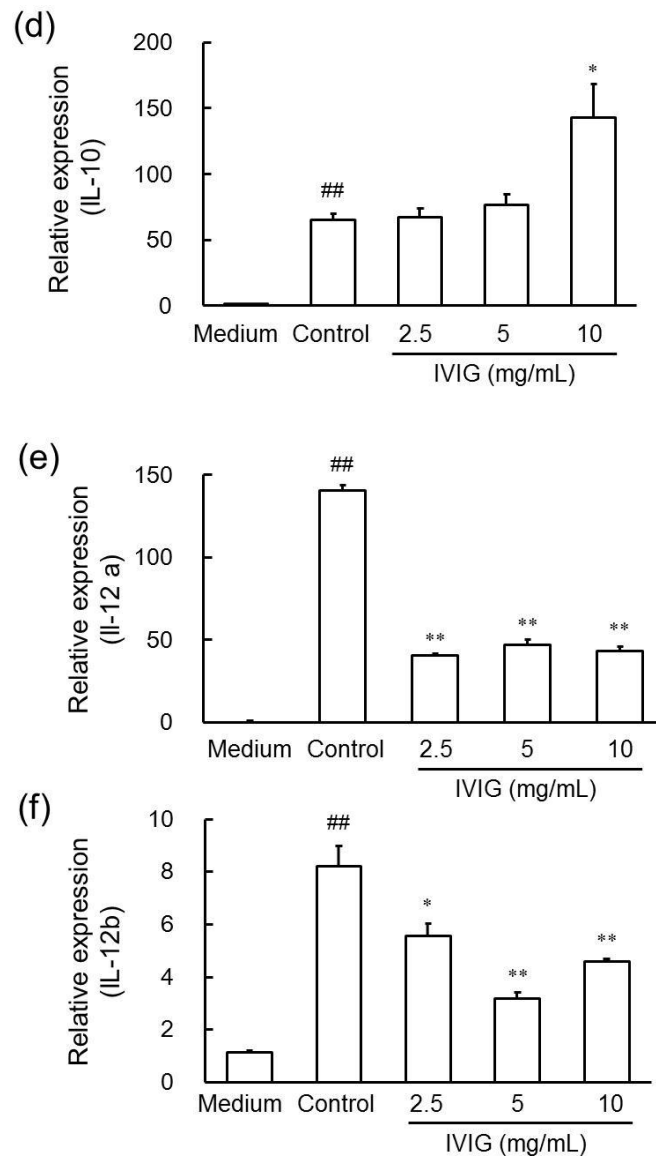


Figure S2: IVIG increased IL-10 mRNA transcription whereas decreased IL-12 mRNA transcription in BMDC stimulated with LPS.

Cells were stimulated with LPS (1 $\mu\text{g}/\text{mL}$) in the presence of IVIG for 18 h. The expressions of mRNA for IL-10, IL-12a, and IL-12b were determined by real-time quantitative RT-PCR. Results were expressed as mean \pm SEM (n=3). ^{##} $p < 0.01$, significantly different from the medium alone (without LPS stimulation, Student's t-test); ^{*} $p < 0.05$, ^{**} $p < 0.01$, significantly different from the Control (LPS stimulation without IVIG, Dunnett's multiple comparison test). At least three independent experiments were conducted and representative results were shown. (a) Expression of IL-10; (b) Expression of IL-12a; (c) Expression of IL-12b.

Putative targets of IVIG in LPS-stimulated BMDC

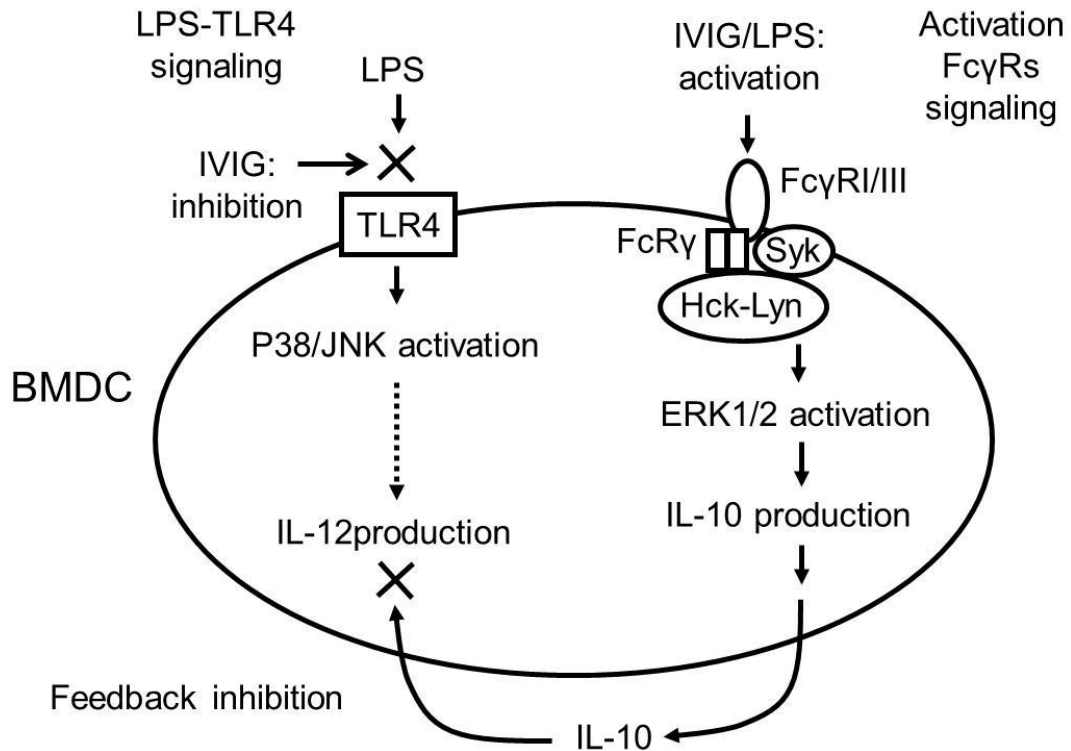


Figure S3: A putative mechanism of IVIG in LPS-stimulated BMDC

(a) After stimulation BMDC with LPS, IVIG inhibits TLR4 signal transduction and reduces p38 MAPK phosphorylation. This may lead to the inhibition of IL-12p70 production. (b) IVIG/LPS complex activates FcγR signaling and induces Syk phosphorylation and ERK1/2 hyper-phosphorylation. This activation results in the up-regulation of IL-10 production and the increased IL-10 contributes to the down-regulation of IL-12p70 production.