

Figure S1. Treatment with 20 mM Mg²⁺ increases MMSC proliferation and osteogenic differentiation. (A) Effects of Mg²⁺ on osteogenic differentiation were evaluated by performing ALP (upper panel) and Alizarin Red S (lower panel) staining. (B) Effects of Mg²⁺ on MMSC apoptosis were determined by performing flow cytometry. (C) Effects of Mg²⁺ on MMSC proliferation were determined by performing an MTS assay. Quantification of staining was presented as the mean \pm SD and analyzed using one-way ANOVA with Bonferroni's post hoc testing (n=3). **P<0.01, ***P<0.001, #P<0.0001. n.s., not significant. MMSC, mouse mesenchymal stem cell; ALP, alkaline phosphatase; OD, optical density.

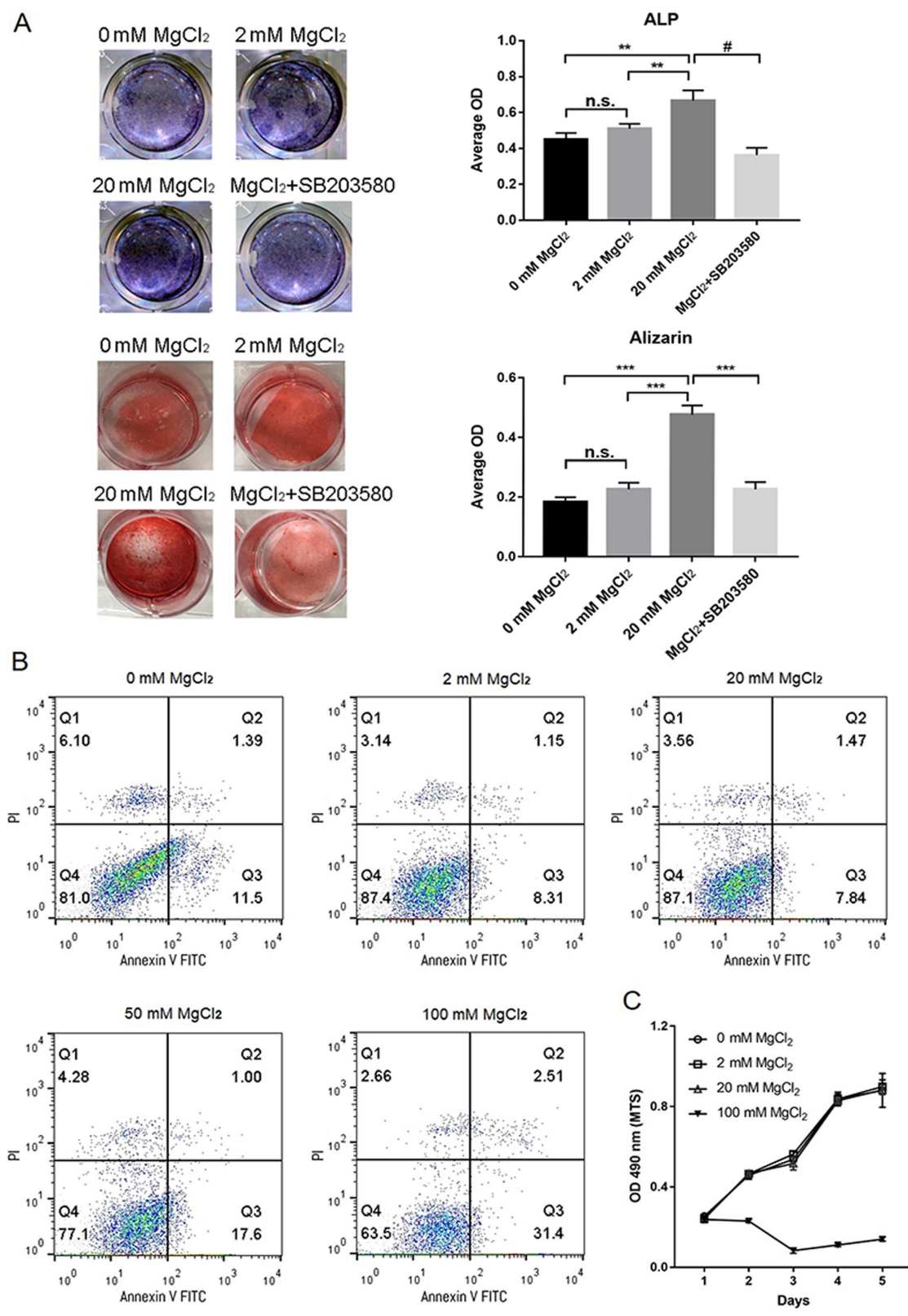


Figure S2. Mg^{2+} treatment activates the p38 signaling pathway and increases the levels of p-p38 in mouse mesenchymal stem cells. * $P < 0.05$, ** $P < 0.01$ and p, phosphorylated; t, total.

