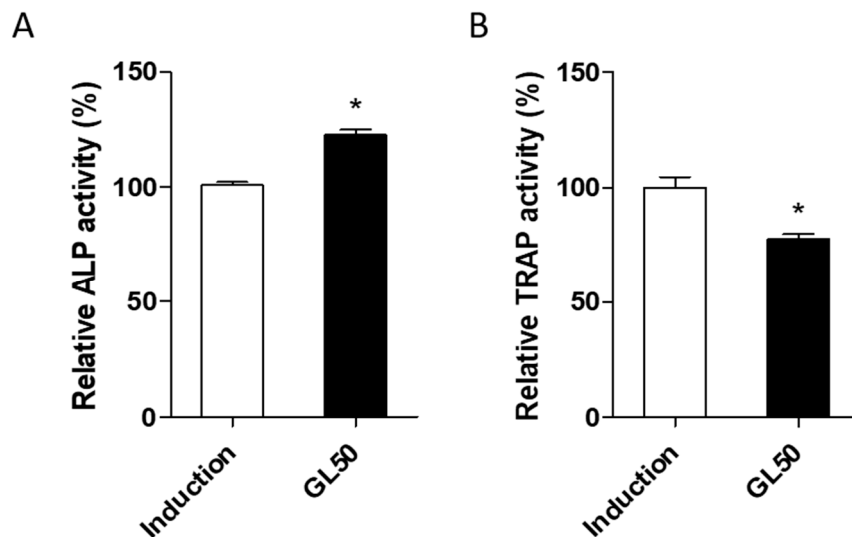
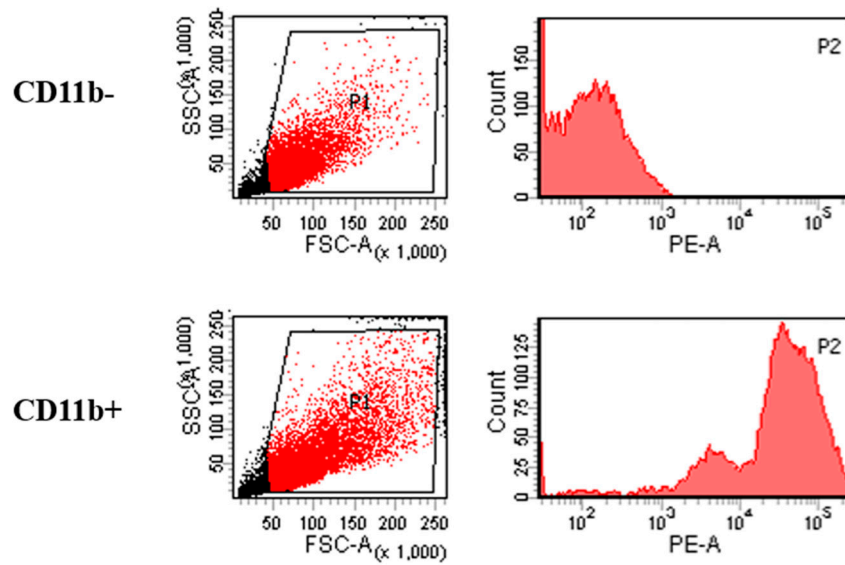


Osteoprotective Effects of Loganic Acid on Differentiation of Osteoblast and Osteoclast, and Ovariectomized Mice

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Supplementary Figure S1. Effects of a 30% ethanol extract of *Gentiana lutea* (GL) root on osteoblast and osteoclast differentiation. (A) MC3T3-E1 cells were co-incubated with osteoblast induction media (induced with ascorbic acid and β -glycerophosphate) and GL root 30% ethanol extract (GL50; 50 μ g/mL) for 3 days. Osteoblast differentiation was assessed by ALP activity. (B) Mouse primary monocytes were co-incubated with osteoclast induction media (Induced with M-CSF and RANKL) and 30% ethanol extract of GL root (GL50; 50 μ g/mL) for 3 days. Osteoclast differentiation was determined by TRAP activity. * $p < 0.05$ vs. Induction (Student's t-test).



Supplementary Figure S2. Identification of monocytes isolated from mouse femoral bone marrow. Primary-cultured monocytes were identified by fluorescence-activated cell sorting analysis using a monocyte-specific surface marker (phycoerythrin-conjugated CD11b antibody).