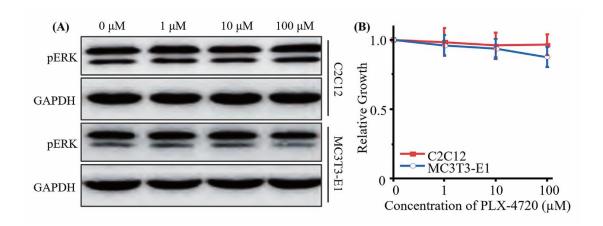
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Supplementary Figure 1. The influence of ERK phosphorylation and cell proliferation in C2C12 cell and MC3T3-E1 cell. To further investigate the influence of PLX-4720 on ERK phosphorylation and cell proliferation of normal body cells, 4 groups of C2C12 cell and MC3T3-E1 cell were administered with 0μ M, 1μ M, 10μ M and 100μ M PLX4720, individually. (A) The cell lysates were subject to western blot analysis. According to the result of grayscale analysis, the content of phosphorylated ERK (p-ERK) in C2C12 and MC3T3-E1 cells remained unaffected when given 1μ M, 10μ M and 100μ M of PLX4720, compared to 0μ M group (p <0.05). (B) Cellular proliferation was determined with Cell Proliferation Kit I (Sigma-Aldrich, Germany) according to the official protocol. The growth of the C2C12 cell line was not inhibited even at a high dose of 100μ M, while the growth of MC3T3-E1 cells decreased (to 83.15%) when the dose reached 100μ M, which is presumed to be related to the pluripotent stem cell properties of the cell line.