

Targeting metastatic DDLPS with MSC-TR/TK

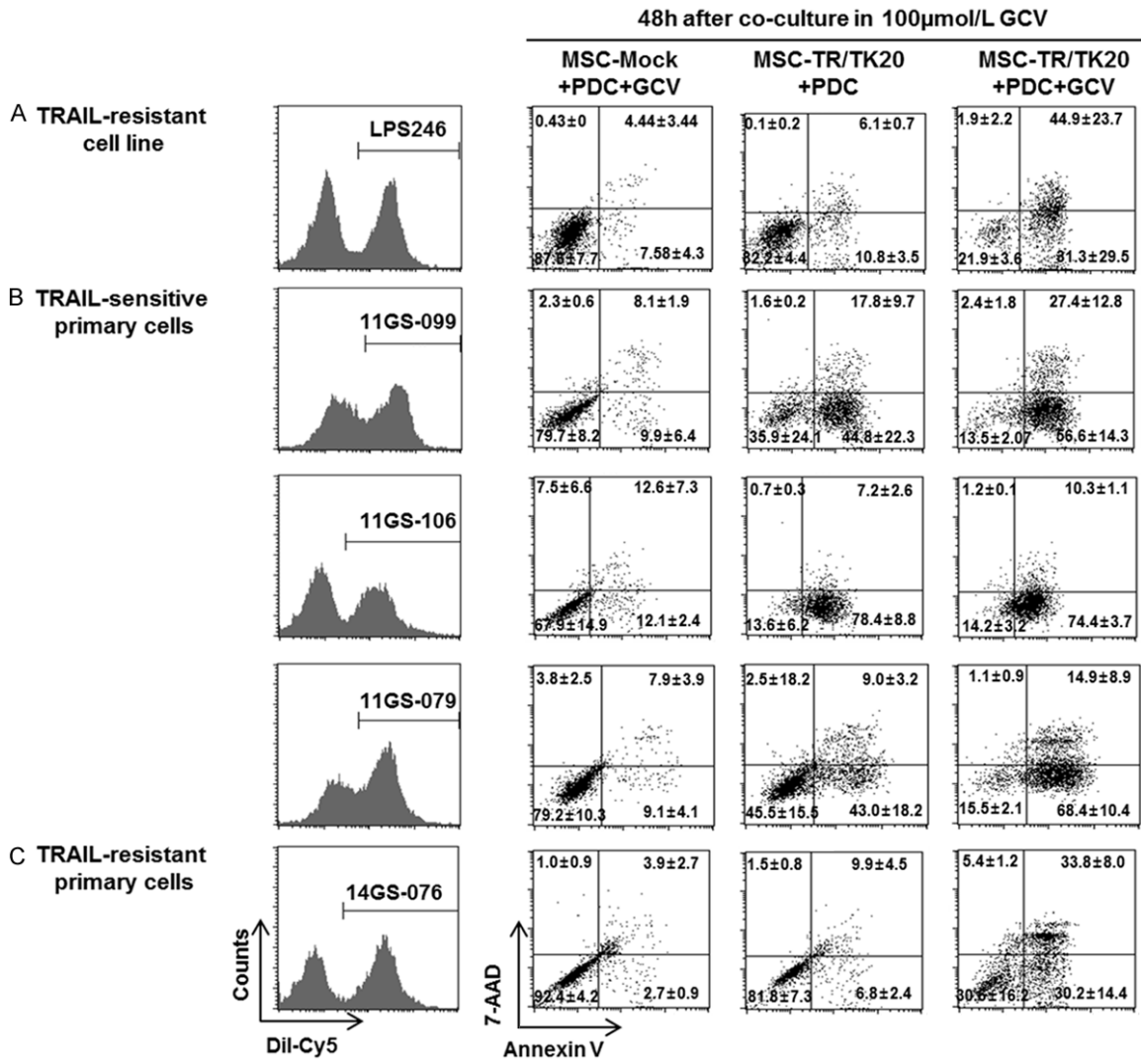


Figure S1. Comparison of apoptosis by dTRAIL/HSV-TK in human DDLPS cell line and PDCs. LPS246 cell lines and PDCs were labeled with 0.2 µmol/L DiI18 (5)-DS for 1 h at 37 °C, then co-cultured with engineered MSC with 100 µmol/L of GCV for 48 hours. The apoptosis induced by dTRAIL and HSV-TK was analyzed by FACS. MSC-MOCK+PDC+GCV: group co-cultured with MSC-Mock (GCV); MSC-TR/TK20+PDC: group co-cultured with 20 MOI of MSC-TR/TK (without GCV); MSC-TR/TK20+PDC+GCV: group co-cultured with 20 MOI of MSC-TR/TK (GCV).

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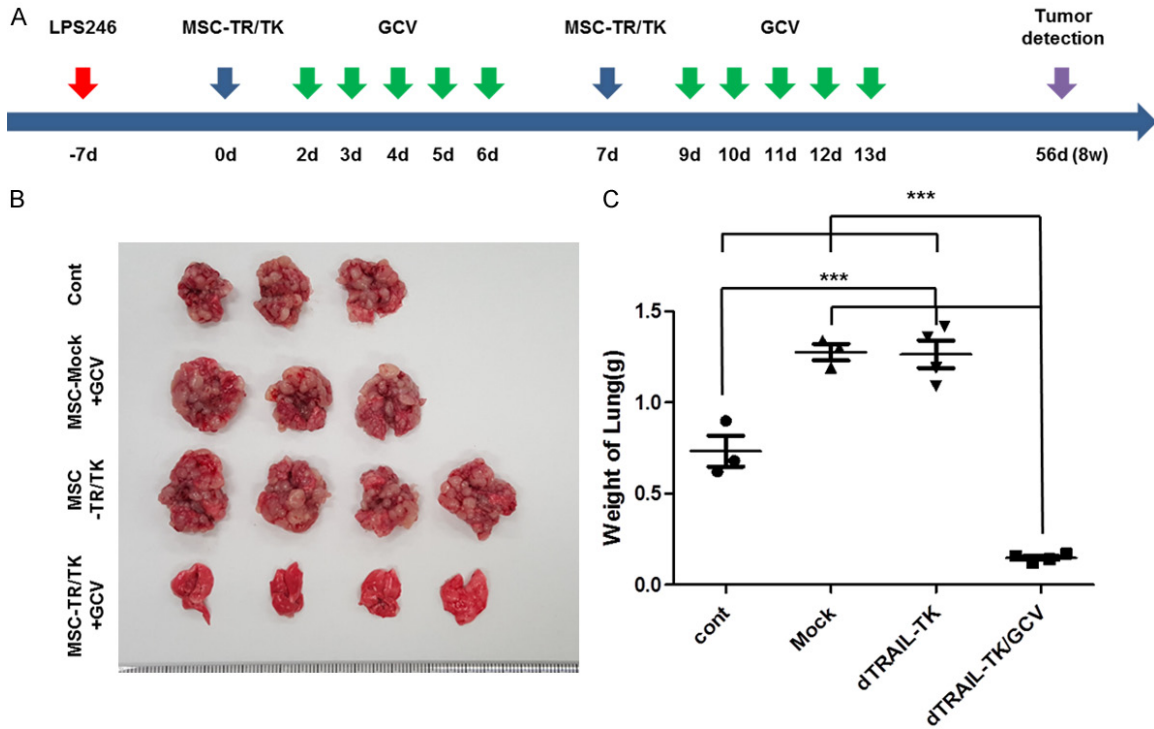


Figure S2. Suppressive effect of MSC-TK on lung metastasis. **A.** Schematic illustration of lung metastasis model. Engineered MSCs were intravenously injected on day 7 after tumor injection, then 50 mg/kg of GCV treatment was initiated on day 2, or 7 after MSC injections for 5 consecutive days. The numbers of metastatic tumor nodules in the lung were counted on day 63 after tumor injection ($n = 3-4$ mice/ group). **B.** Gross images of tumor burden in the lung of each group after 8 weeks of treatment ($n = 2-5$ mice/each group). **C.** Tumor-bearing lung weights. *** $P < 0.001$, values are the mean \pm SD.