3,3'-Diindolylmethane Promotes Gastric Cancer Progression via β-TrCP-Mediated NF-κB activation in Gastric Cancer derived MSCs

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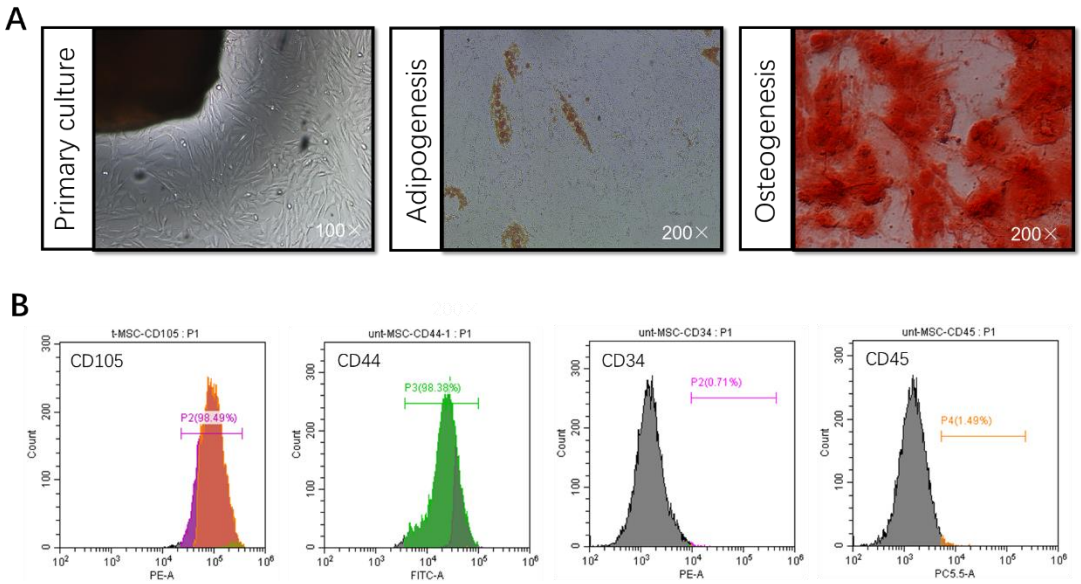
FIGURE S1



FigureS1. Isolation and identification of GC-MSCs. (A) GC-MSCs were isolated from the gastric cancer tissues through adherent culture. After the initial 1-2 weeks of primary culture, GC-MSCs adhered to the surface of the culture dish and displayed a small population of cells with spindle or fusiform shape. Differentiation capacity of GC-MSCs was evaluated after 16 days of induction in the conditioned media. GC-MSCs presented the ability of differentiating into adipocytes and osteocytes under different inducing conditions, displayed by positive staining of Oil Red O (for adipogenesis) and Alizarin Red S (for osteogenesis). (B) Flow cytometry is used to identify representative markers of GC-MSCs and it turned out to be positive for CD44, CD105 while negative for CD45 and CD34.

FIGURE S2

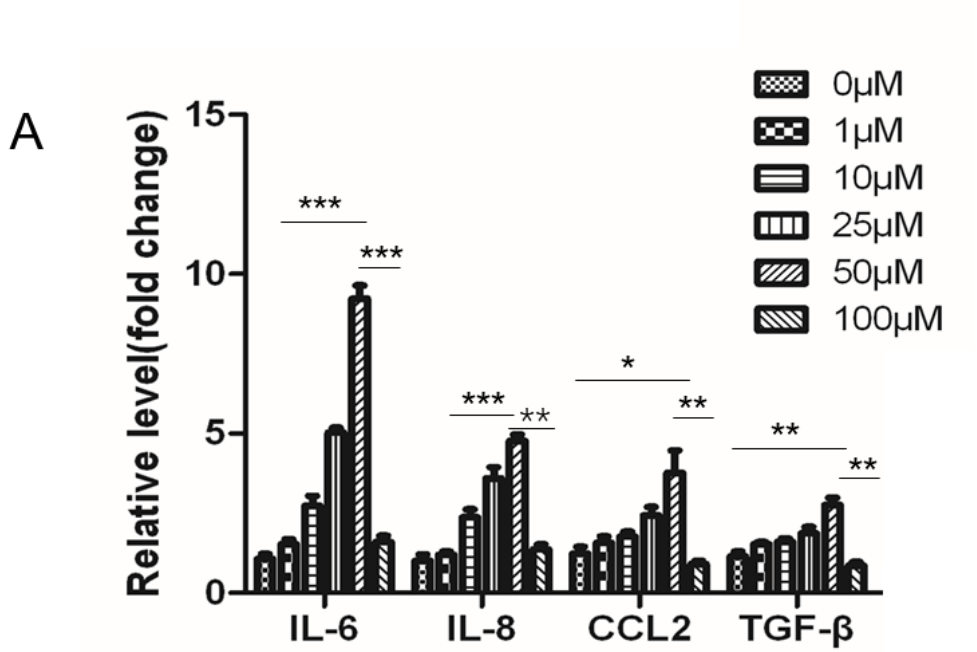


Figure S2. DIM regulate the expression level of cytokines of GC-MSCs. (A) Real-time RT-PCR for the expression of *CCL2*, *IL-6*, *IL-8,* and *TGF-β* genes in GC-MSCs treated with 100 μM DIM for 48 h (n = 3, **P* < 0.05, ** *P* < 0.01, *** *P* < 0.001 compared with the control group).

FIGURE S3

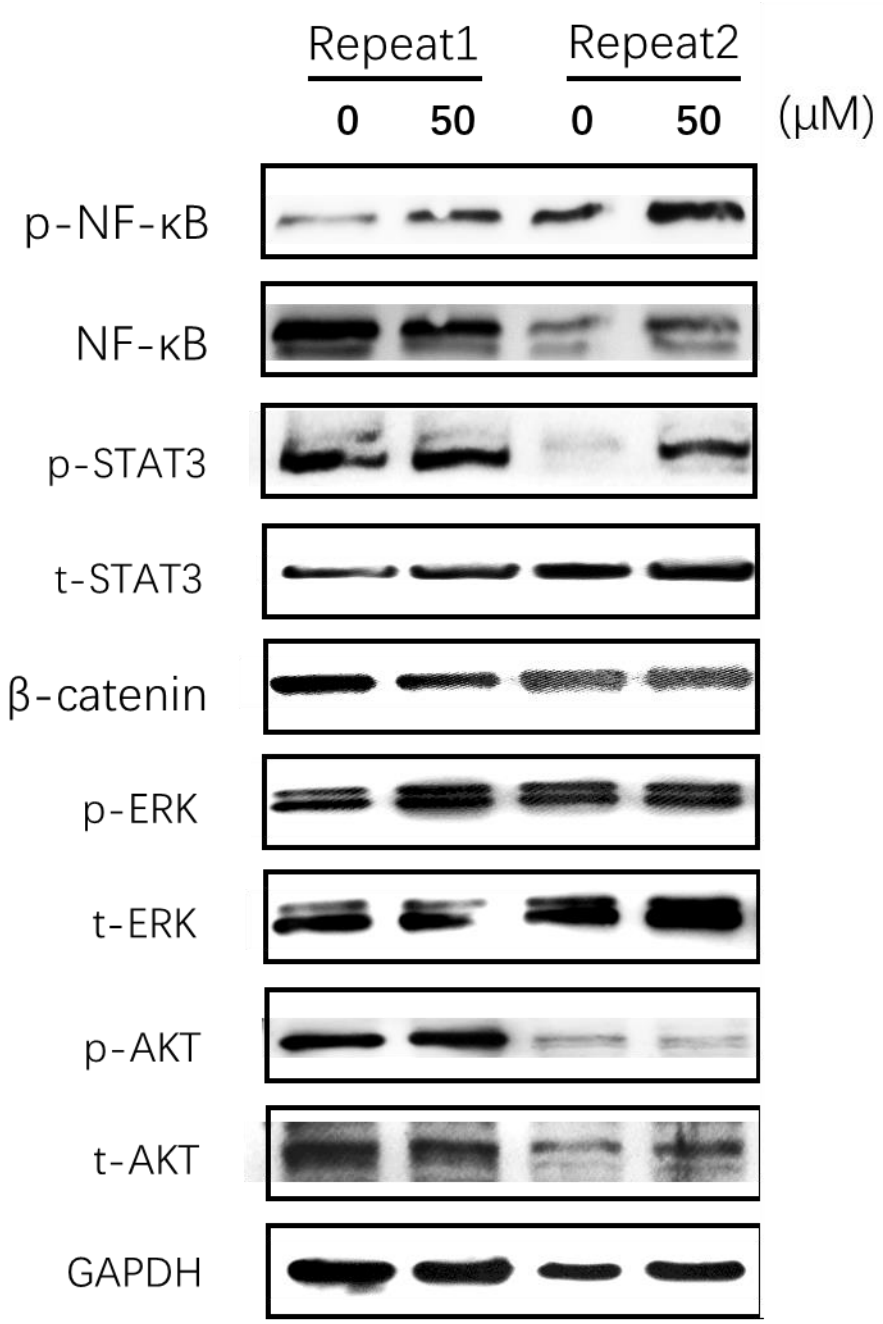


Figure S3. DIM stimulates signaling pathways in different degree. Western for the detection of expression of NF-κB, STAT3, β-catenin, ERK, AKT and GAPDH and in two different batches of GC-MSCs treated with 50 μM DIM for 48 h.

FIGURE S4

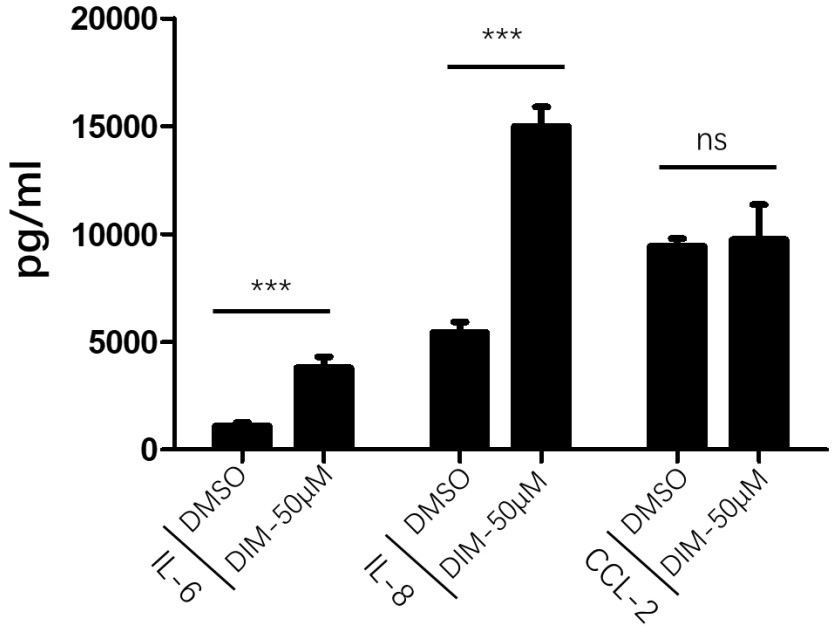


Figure S4. DIM promote the secretion of IL-6, IL-8 and CCL-2 of GC-MSCs. Cytokine profile analysis of GC-MSCs by Luminex immunoassay and the results of IL-6, IL-8 and CCL-2 has been listed. (n=3, *** $P < 0.001$ compared with the control group).