

**Supplemental Figure 1:** The granules of the YPF formula were analyzed by HPLC. Among them, Astragaloside IV was used as the standard control of Astragali Radix granules (***Huang-Qi***). Atractylenolide II was used as the standard control of Atractylodis Macrocephalae Rhizoma (***Bai-Zhu***). Prim-O-glucosylcimifugin and 5-O-methylvisammioside were used as standard controls of Saposhnikoviae Radix granules (***Fang-Feng***).

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**Supplemental Figure2:** The purity of induced MDSCs cell populations determined by flow cytometry.

**Supplemental Table1** List of primary antibodies used in Western blot

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| Antibody | host | Dilution | Source |
| STAT3 | Rabbit | 1:1000 | Cell Signaling Technology 12640 |
| p-STAT3 | Rabbit | 1:2000 | Cell Signaling Technology 9145 |
| AKT | Rabbit | 1:1000 | Cell Signaling Technology 4691 |
| p-AKT | Rabbit | 1:2000 | Cell Signaling Technology 4060 |
| MEK | Rabbit | 1:1000 | Cell Signaling Technology 8727 |
| p-MEK | Rabbit | 1:1000 | Cell Signaling Technology 9154 |
| ERK | Rabbit | 1:1000 | Cell Signaling Technology 4695 |
| p-ERK | Rabbit | 1:2000 | Cell Signaling Technology 4370 |
| β-actin | Rabbit | 1:1000 | Cell Signaling Technology 4970 |