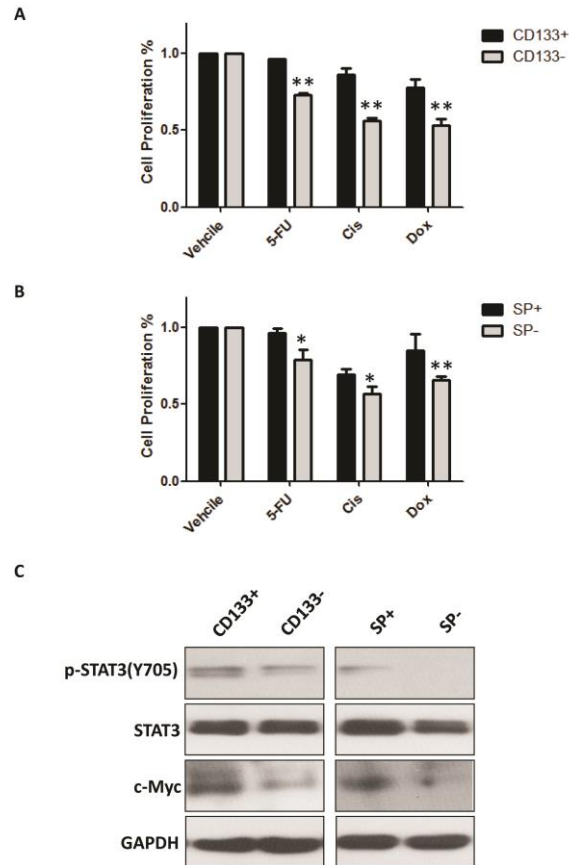


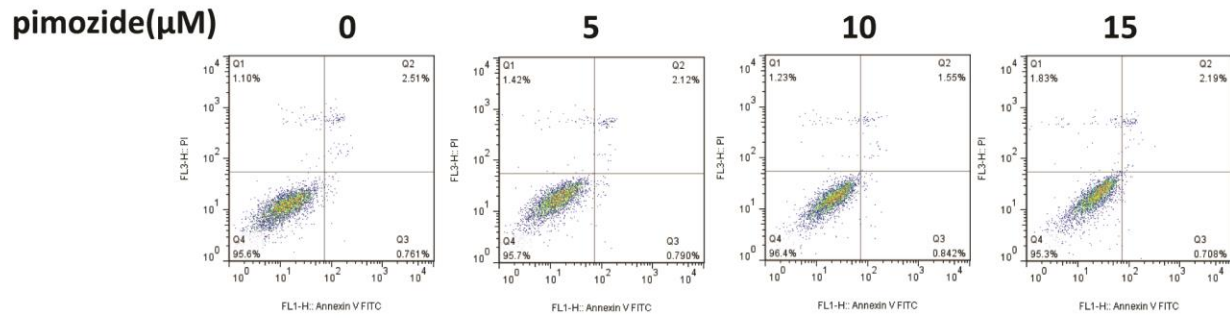
The neuroleptic drug pimozide inhibits stem-like cell maintenance and tumorigenicity in hepatocellular carcinoma

Supplementary Material

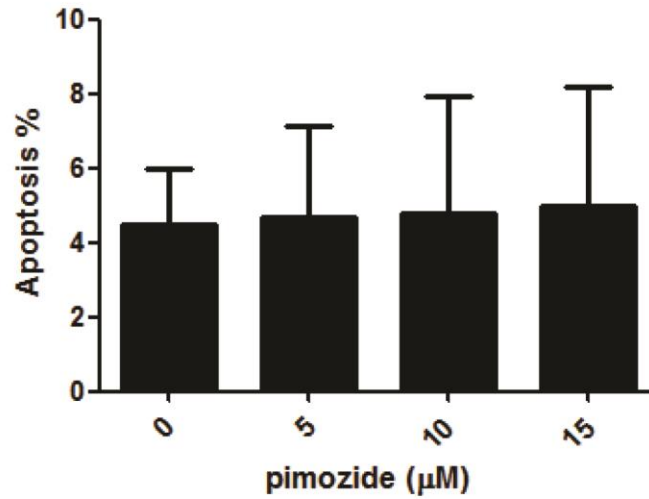


Supplemental Figure 1: CD133-positive cells or SP cells from MHCC-97L cells are respectively resistant to chemotherapy with intracellular high STAT3 activation. CD133-positive cells or SP cells from MHCC-97L cells were incubated with the indicated doses of chemotherapy for 24h using MTT assay. The results showed that CD133-positive cells (A) or SP+ cells (B) from MHCC-97L were respectively resistant to fluorouracil (5-FU) (50 μ M), cisplatin (Cis) (5 μ g/ml) and doxorubicin (Dox) (1 μ g/ml), compared with their control CD133 negative cells or SP- cells. Relative representative figures are shown. The data are summarized from three independent experiments, * $p < 0.05$, ** $p < 0.01$. (C) Western blot analysis of the expression of p-STAT3(Y705), STAT3 and c-Myc in CD133-**positive** cells or SP cells from MHCC-97L cells, compared with their control cells.

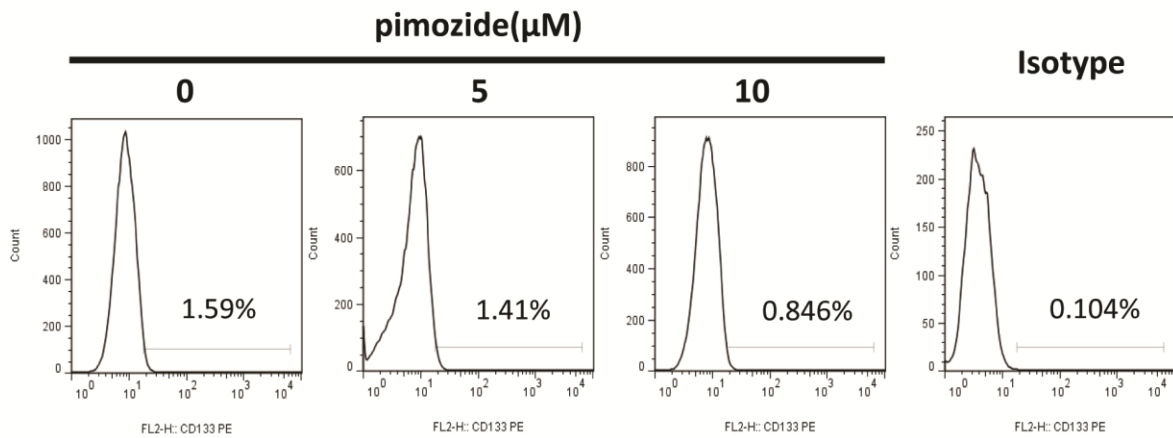
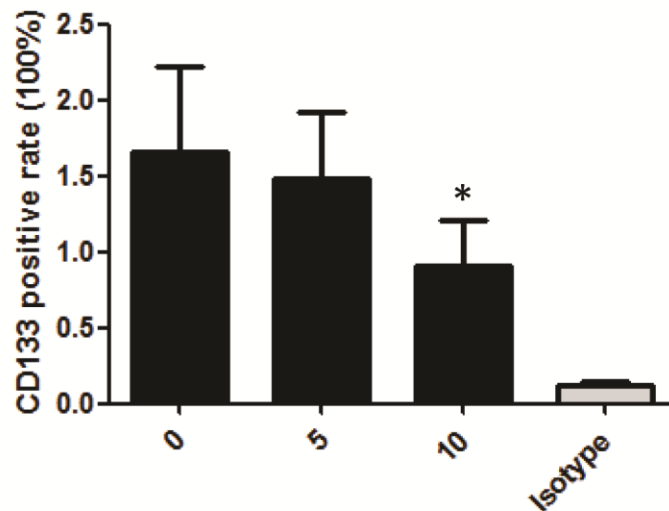
A



B



Supplemental Figure 2: Pimozide does not induce obvious apoptosis in MHCC-97L cells. MHCC-97L cells were treated with pimozide at different concentrations for 24h. (A) Apoptotic cells were measured by Annexin V/PI staining. (B) Data summarized three independent experiments, * $p < 0.05$, ** $p < 0.01$, compared to control.

A**B**

Supplemental Figure 3: Pimozide reduces CD133 positive populations in MHCC-97L cells.

MHCC-97L cells were treated with pimozide at different concentrations for 48h. (A) CD133 positive rate was measured by flow cytometry. (B) Data summarized three independent experiments, * $p < 0.05$, ** $p < 0.01$, compared to control.

Supplemental Table I: The primers for qPCR

Name	Sense sequence(5'-3')	Antisense sequence(5'-3')
<i>GAPDH</i>	TCCCACTCTTCCACCTTCGATGC	GGGTCTGGGATGGAAATTGTGAG
<i>MCL1</i>	GGCAGGATTGTGACTCTC	CTCCTACTCCAGCAACAC
<i>BCL-xL</i>	GCTGGTGGTTGACTTTCTCTC	GGTCTCCATCTCCGATTCAGT
<i>c-Myc</i>	AGGAACAAGAAGATGAGGAAGA	CTGCGTAGTTGTGCTGATG
<i>Bmi1</i>	G TTCACAAGACCAGACCACTAC	GGCAGCATCAGCAGAAGGA
<i>Nanog</i>	AACTCTCCAACATCCTGAACCT	CTGCGTCACACCATGCTATT
<i>Oct4</i>	GACAGGGGGAGGGGAGGAGCTAGG	CTTCCCTCCAACCAGTTGCCCAAAC