Figure S1. IGF-IR expression in cell lines after IGF-IR knockdown. Transfection with IGF-IR shRNA lentivirus resulted in a decrease in IGF-IR expression in the (A) SKM-1 (MDS-derived leukemia cell line) and (B) K562 (acute erythroid leukemia cell line) cells. IGF-IR, type 1 insulin-like growth factor receptor; shRNA, short hairpin RNA; MDS, myelodysplastic syndrome.

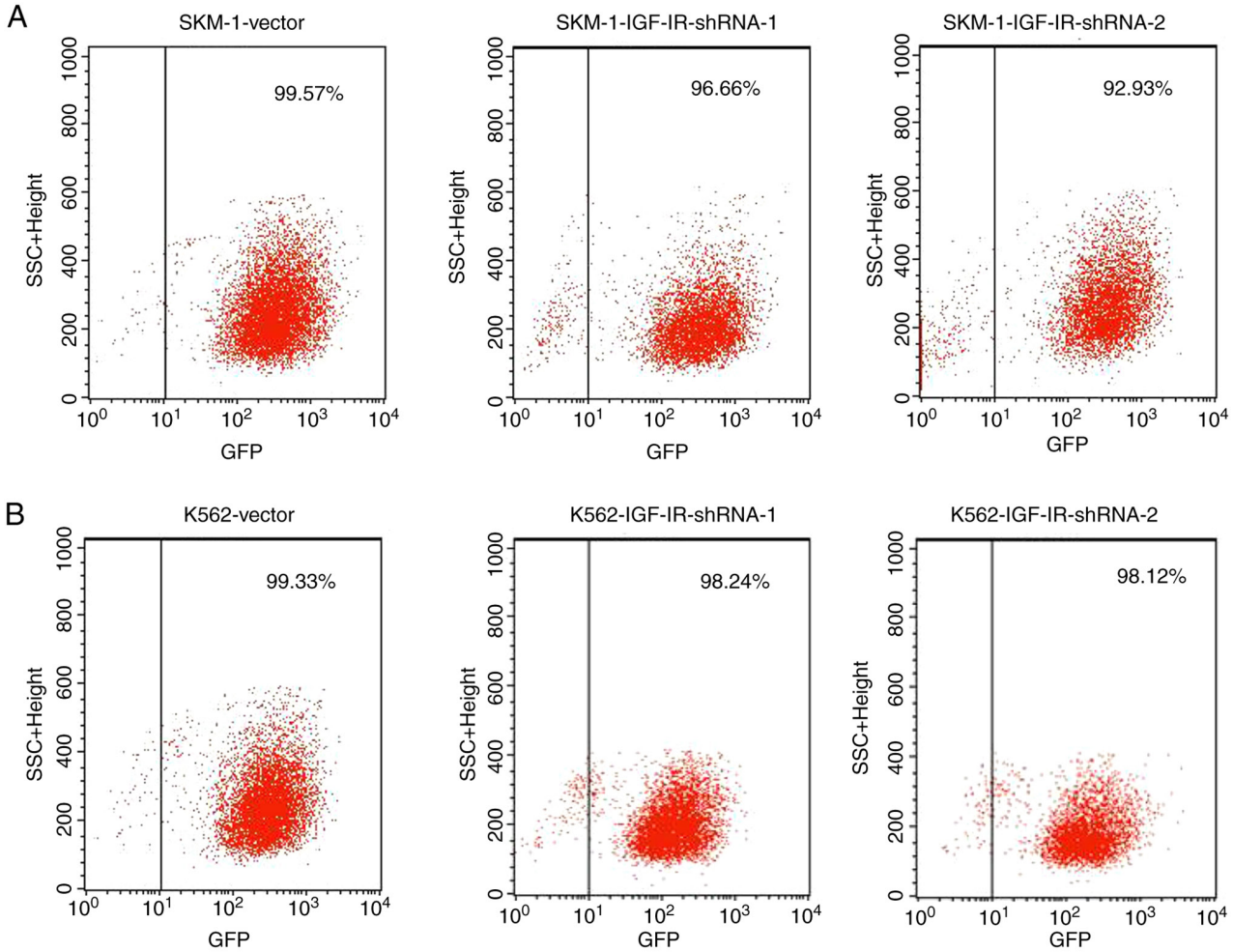

Figure S2. Cell apoptosis in cell lines after IGF-IR knockdown. IGF-IR knockdown increased the cell apoptosis in (A) SKM-1 and (B) K562 cell lines. IGF-IR, type 1 insulin-like growth factor receptor; shRNA, short hairpin RNA.

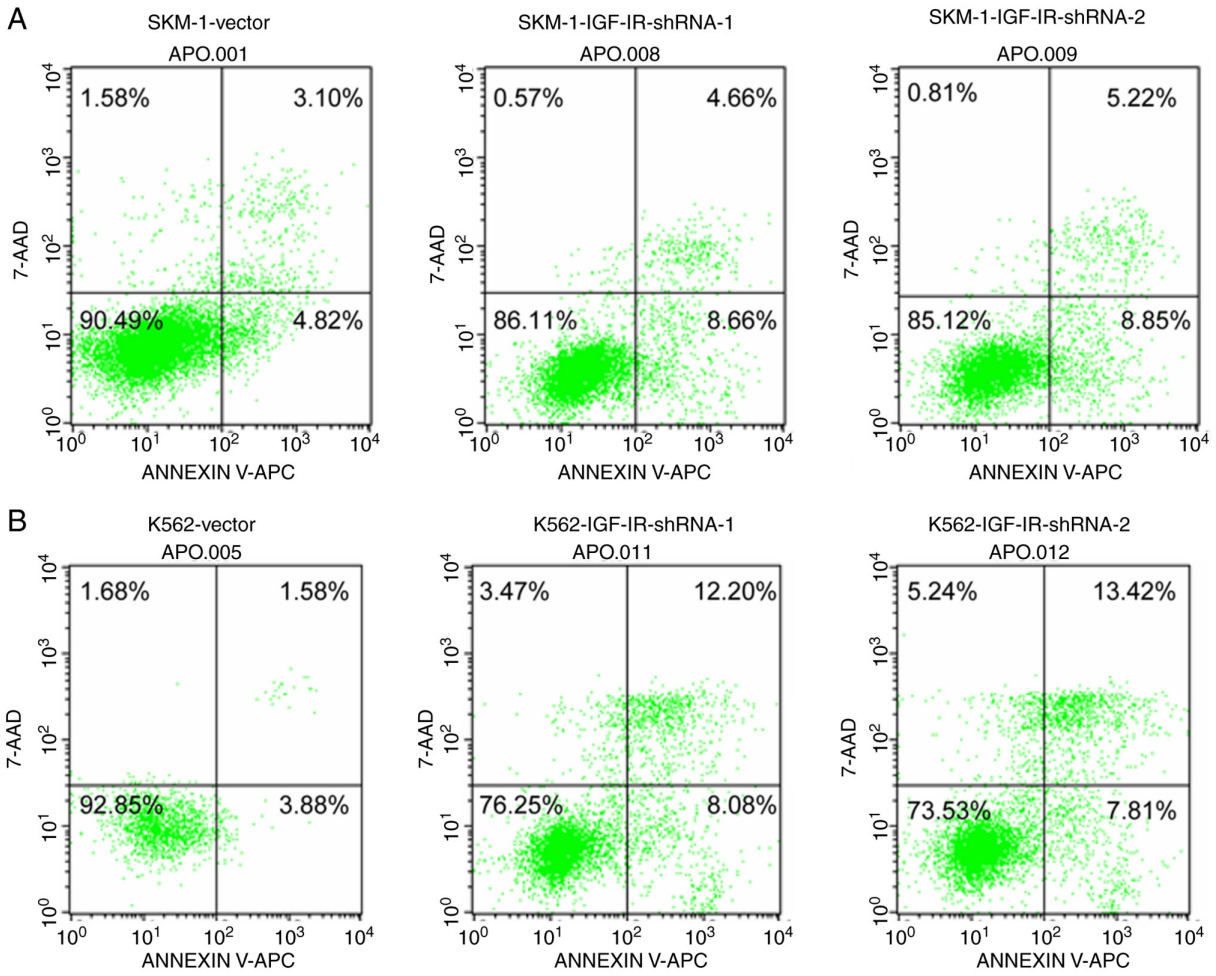

Table SI. The detailed primer sequences.

Genes	Primers	Length (bp)	T (˚C)
IGF-IR	F: CGAGAAGGAGGAGGCTGAATAC R: GGTGATGTTGTAGGTGTCTGC	166	60
p21	F: TGTCCGTCAGAACCCATGC R: AAAGTCGAAGTTCCATCGCTC	139	60
MYC	F: GGCTCCTGGCAAAAGGTCA R: CTGCGTAGTTGTGCTGATGT	119	60
GAPDH	F: ACAACTTTGGTATCGTGGAAGG R: GCCATCACGCCACAGTTTC	101	60

IGF-IR, Type 1 insulin-like growth factor receptor; F, forward; R, reverse; T, temperature.

Table SII. Cell viability of $CD34^+$ cells from 8 MDS patients after PPP intervention.

No.	WHO/FAB	PPP (1 μM) (%)						P-value
		0 h	24 h	48 h	72 h	96 h	168 h	
P1	RAEB2	86.2	70.4	65.1	46.7	62.7	63.6	<0.001
P2	RAEB1	88.1	48.1	36.7	25.7	46.6	45.8	<0.001
P3	RAEB1	91.4	82.4	66.7	78.6	75.0	73.3	<0.001
P4	RA	100	75.0	60.0	66.7	50.0	53.6	0.003
P5	RCMD	54.8	50.5	47.1	60.9	68.1	52.0	0.028
P6	RAEB1	80.0	57.1	55.6	83.3	85.7	80.0	<0.001
P7	RAEBt	93.2	93.7	88.3	90.7	89.8	90.3	<0.001
P8	RAEB2	79.6	78.6	61.5	62.5	80.0	78.0	<0.001
Mean		84.2	69.5	60.1	64.4	69.7	67.1	0.003

MDS, myelodysplastic syndrome; PPP, picropodophyllin; WHO, World Health Organization; FAB, French-American-British.