Supplementary Data

Supplementary Table 1. Obatoclax induces apoptosis in primary CD34 (+) AML samples. 7 primary samples were treated with increasing concentrations of obatoclax, and % specific apoptosis was calculated as described in the Materials and Methods.

OBX concentration	Average %CD34+AnnexinV+ (specific apoptosis)	SEM		
250 nM	16.0	4.8		
500 nM	23.1	5.3		
1 μΜ	35.9	8.6		
2.5 μΜ	48.1	9.4		
5 μΜ	62.5	8.8		
10 μΜ	73.5	8.4		

Supplementary Table 2. – Various concentrations at a fixed ratio of 1:1 of obatoclax and AraC were added to OCI-AML3 cells, HL-60 cells (0.1μ M, 0.25μ M, 0.5μ M, 1μ M, 2.5 μ M), or blast cells from 4 primary AML samples (0.5μ M, 1μ M, 2.5μ M) for 48 h, and CI values for attaining Annexin V – positivity were calculated as described in Materials and Methods. The averaged combination index (CI) values were calculated from the ED₅₀, ED₇₅ and ED₉₀.

Cell line	Drugs			CI values for % annexinV (+)			
	OBX	AraC	ABT -737	ED50	ED75	ED90	Average CI value (±SEM)
OCI-AML3	X	X		0.44	0.35	0.30	0.36±0.04
HL60	X	X		0.12	0.048	0.018	0.062±0.030
Primary AML #11	X	X		0.96	0.66	0.45	0.69±0.18
Primary AML #12	X	X		0.74	0.31	0.14	0.40±0.22
Primary AML #13	X	X		0.87	0.30	0.13	0.43±0.27
Primary AML #14	X	X		0.54	0.30	0.18	0.34±0.13
OCI-AML3	X		X	0.35	0.30	0.25	0.30±0.03