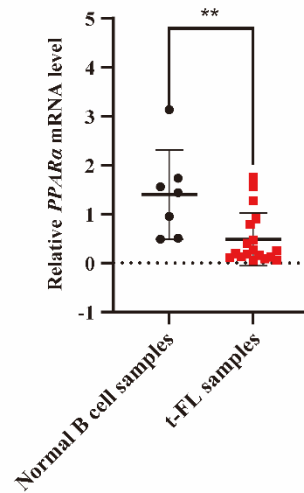


Supplemental Data

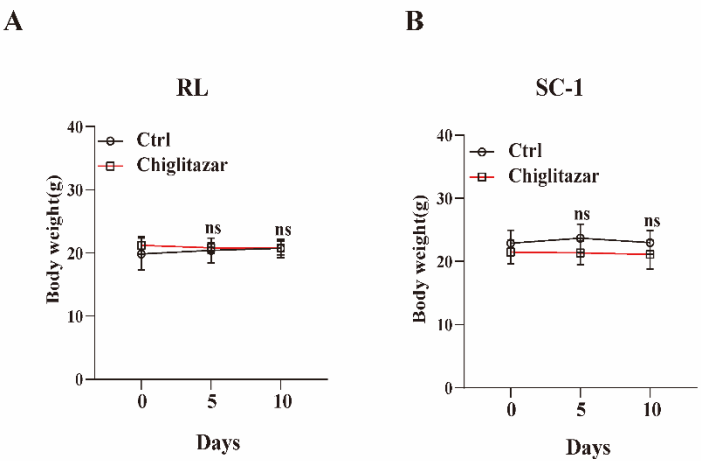
Supplemental Figures

Supplemental Figure S1



PPARα is low-expressed in t-FL samples compared to normal CD19⁺ B cells from healthy donors.

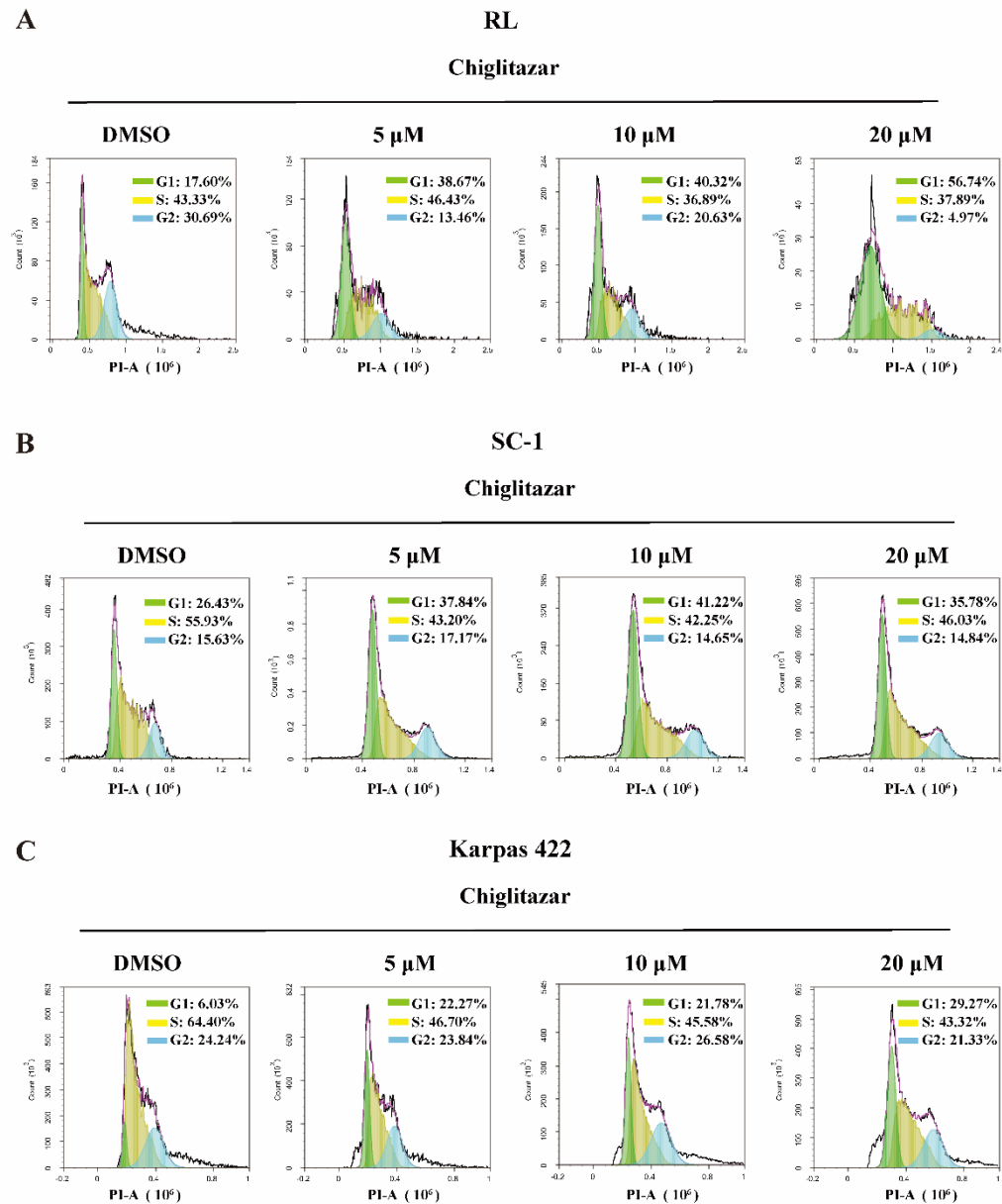
20 **Supplemental Figure S2**



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22 The body weights of the CDX mice of RL (A) and SC-1 (B) cells did not significantly

23 change after administration of chiglitazar (15 mg/kg).



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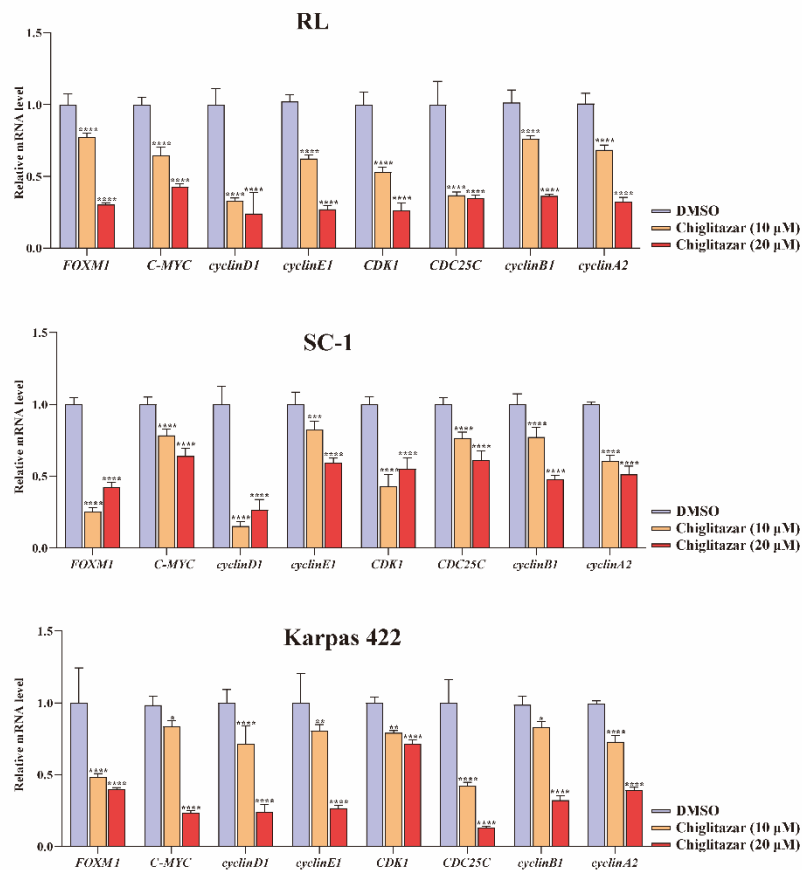
39 Representative images of the cell cycle of RL (A), SC-1 (B), and Karpas 422 cells (C)
40 after treatment with DMSO or chigitazar (5 μ M, 10 μ M, 20 μ M) were analyzed by PI
41 staining.

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45 **Supplemental Figure S4**



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47 Real-time PCR analysis was used to analyze the effects of chiglitazar treatment (10 μM,
48 20 μM) for 24 h on the mRNA levels of RL, SC-1, and Karpas 422 cell cycle-related
49 genes (*FOXM1*, *C-MYC*, *cyclin B1*, *cyclin D1*, and *cyclin E1*).

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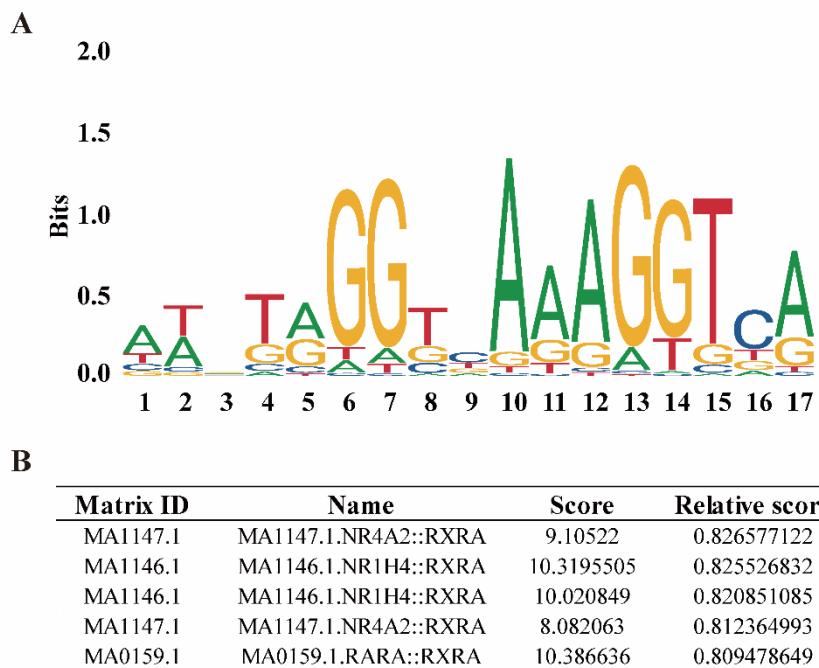
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57 **Supplemental Figure S5**



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59 The PPAR α binding site in the promoter region of *FOXMI* was predicted using the
60 Jasper website. Motif analysis of the accessible promoter region **(A)** and relative scores
61 for different regions **(B)**.

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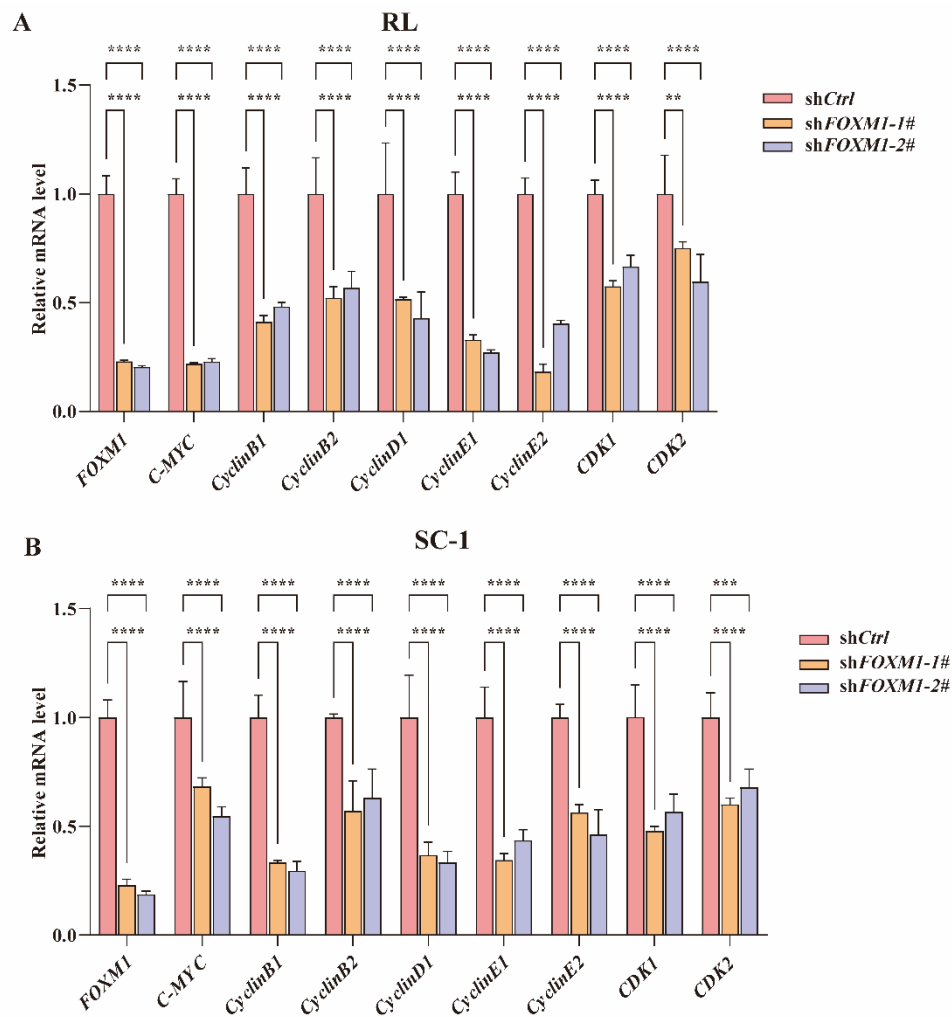
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74 Expression of *FOXM1* and its target genes (*C-MYC*, *CyclinB1*, *CyclinD1*, *CyclinE1*,
75 *CyclinE2*, *CDK1* and *CDK2*) was assessed by real-time PCR in *FOXM1*-knockdown
76 RL (**A**) and SC-1 cells (**B**).

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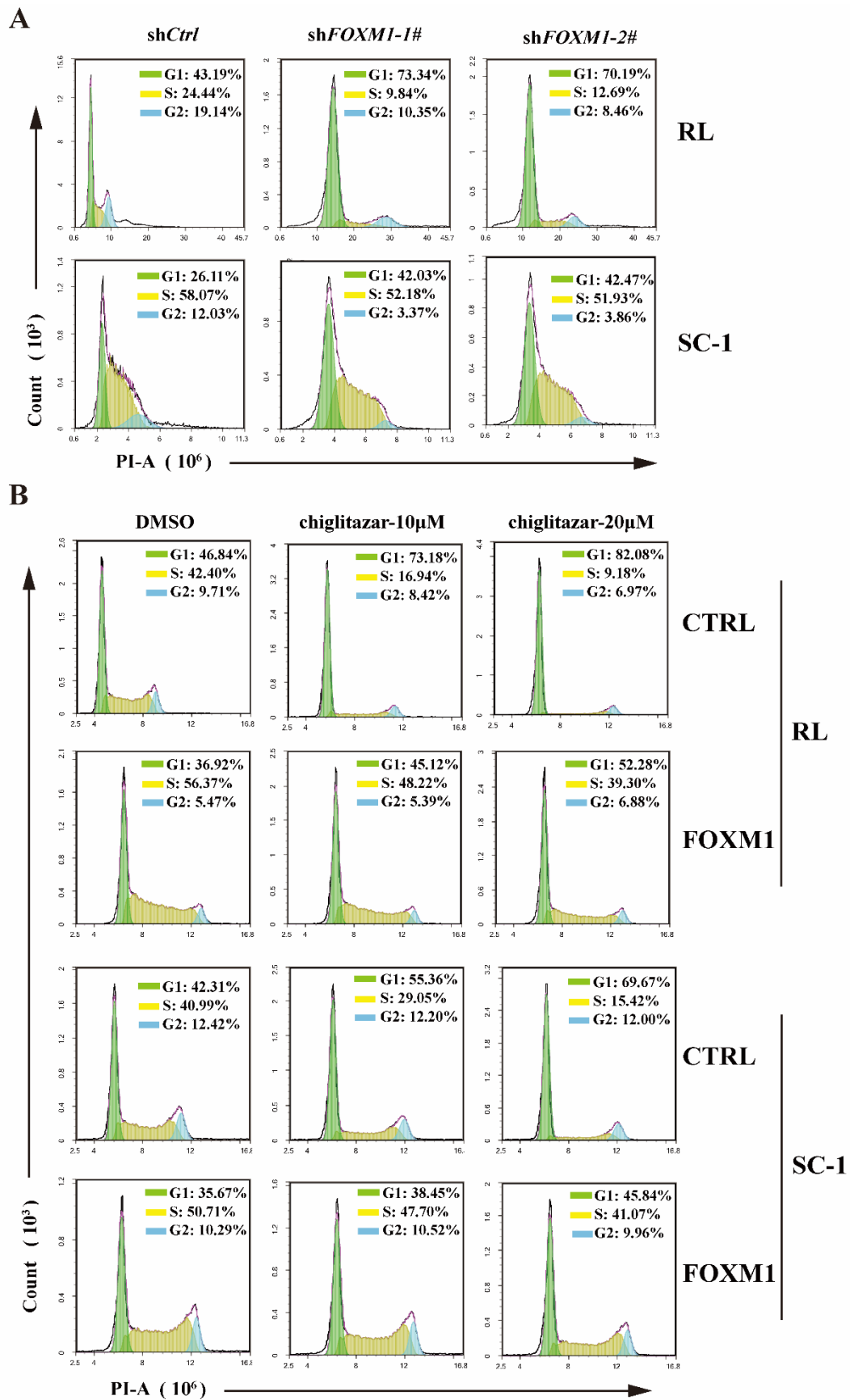
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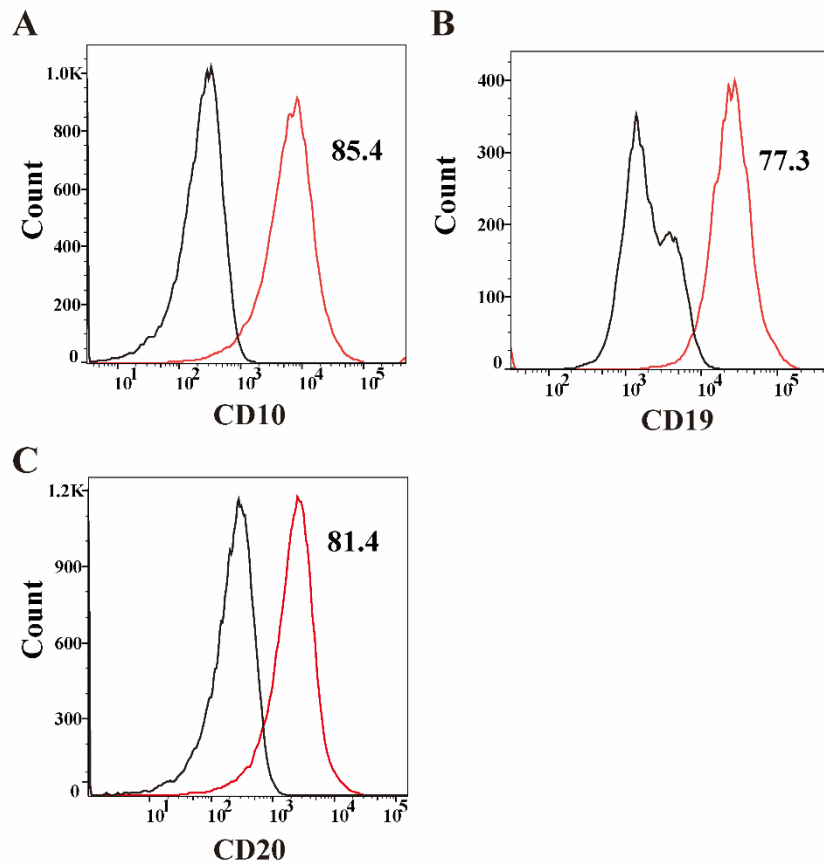
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Representative images of the cell cycle in *FOXMI*-knockdown **(A)** and *FOXMI*-overexpressed **(B)** RL and SC-1 cells were analyzed using PI staining.



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109 The t-FL PDX cells are identified by flow cytometry staining using human CD10, CD19
 110 and CD20 antibodies.

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Supplementary Tables

120 **Supplementary Table 1.** Clinical characteristics of FL and t-FL patients.

Clinical characteristics of FL and t-FL patients					
Patient No	Clinical diagnosis	Stage	relapse	Age	Gender
1	Follicular lymphoma	unknown	no	64	F
2	Follicular lymphoma	III	no	58	M
3	Follicular lymphoma	IV	yes	54	F
4	Follicular lymphoma	IIIA	yes	77	M
5	DLBCL	IV	no	48	M
6	DLBCL	IIIA	no	74	M
7	DLBCL	unknown	no	60	M
8	DLBCL	IVA	no	66	M
9	DLBCL	IVA	yes	43	F
10	DLBCL	IIIA	no	57	M
11	Follicular lymphoma	IVA	no	51	F
12	DLBCL	unknown	yes	70	M
13	Classic Hodgkin lymphma, small lymphocytic lymphoma	unknown	no	58	F
14	Burkitt lymphoma	IV	no	46	F
15	Mantle cell lymphoma	unknown	no	60	F
16	small lymphocytic lymphoma	unknown	no	74	F
17	DLBCL	IIIB	no	61	F
18	DLBCL	IVA	no	75	F
19	Follicular lymphoma	unknown	no	54	M
20	Follicular lymphoma	IVA	no	69	M
21	DLBCL	IVB	no	73	F
22	DLBCL	IV	no	39	F
32	DLBCL	IIIB	no	61	F
24	DLBCL	IIIA	no	59	F
25	DLBCL	IIIA	no	58	F
26	DLBCL	unknown	no	58	F
27	Follicular lymphoma	IIIB	no	47	F
28	DLBCL	IVA	no	55	F
29	DLBCL	IVA	no	66	M

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Supplementary Table 2. The primers used for the quantitative qPCR.

Name	Sequence	
	Forward	Reverse
<i>GAPDH</i>	GGAGCGAGATCCCTCCAAAAT	GGCTGTTGTCATACTTCTCATGG
<i>FOXMI</i>	AGACCTGTGCAGATGGTGAG	CTGATGGTCTCG AAGGCTCC
<i>C-MYC</i>	CGTCTCCACACATCAGCACAA	TCTTGGCAGCAGGATAGTCCTT
<i>cyclin A2</i>	TTCACACATACCTTAGGGAAATGG	AGCCAAATGCAGGGTCTCAT
<i>cyclin D1</i>	CATCTACACCGACAACCTCCATC	GTTCAATGAAATCGTGCGGG
<i>cyclin E1</i>	GTCCTGGCTGAATGTATACATGC	CCCTATTTTGTTTCAGACAACAT
<i>cyclin E2</i>	AACTACCCAGGATGTCAAAAAAAGA	ATCAGGCAAAGGTGAAGGATTAATA
<i>CDK1</i>	TTCAGGATGTGCTTATGCAGGA	CTTCTAGAGTGACAAAACACAATCCC
<i>CDK2</i>	CCGCCTGGACACTGAGACT	GTGGAGGACCCGATGAGA
<i>CDC25</i>	CTACTCATCCCTGCCCTCTG	TCAAACCCGTAACACAGCAA
<i>cyclin B1</i>	TAAGATTGGAGAGGTTGATGTCGA	CCAGGTGCTGCATAACTGGA
<i>cyclin B2</i>	ATGTGACTATTAGGCGAACT	AGAGCAAGGCATCAGAAA

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Supplementary Table 3. The IC50 values of RL, SC-1 and Karpas 422 cells treated with chigitazar

Cell lines	Agents	24 h		48 h	
		IC50 (μM)	95% Confidence intervals (μM)	IC50 (μM)	95% Confidence intervals (μM)
RL	Chigitazar	34.74	33.54 to 36.12	29.32	27.63 to 31.26
SC-1	Chigitazar	37.97	35.17 to 41.53	25.35	23.25 to 27.69
Karpas 422	Chigitazar	41.76	38.96 to 45.30	19.22	17.88 to 20.68

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