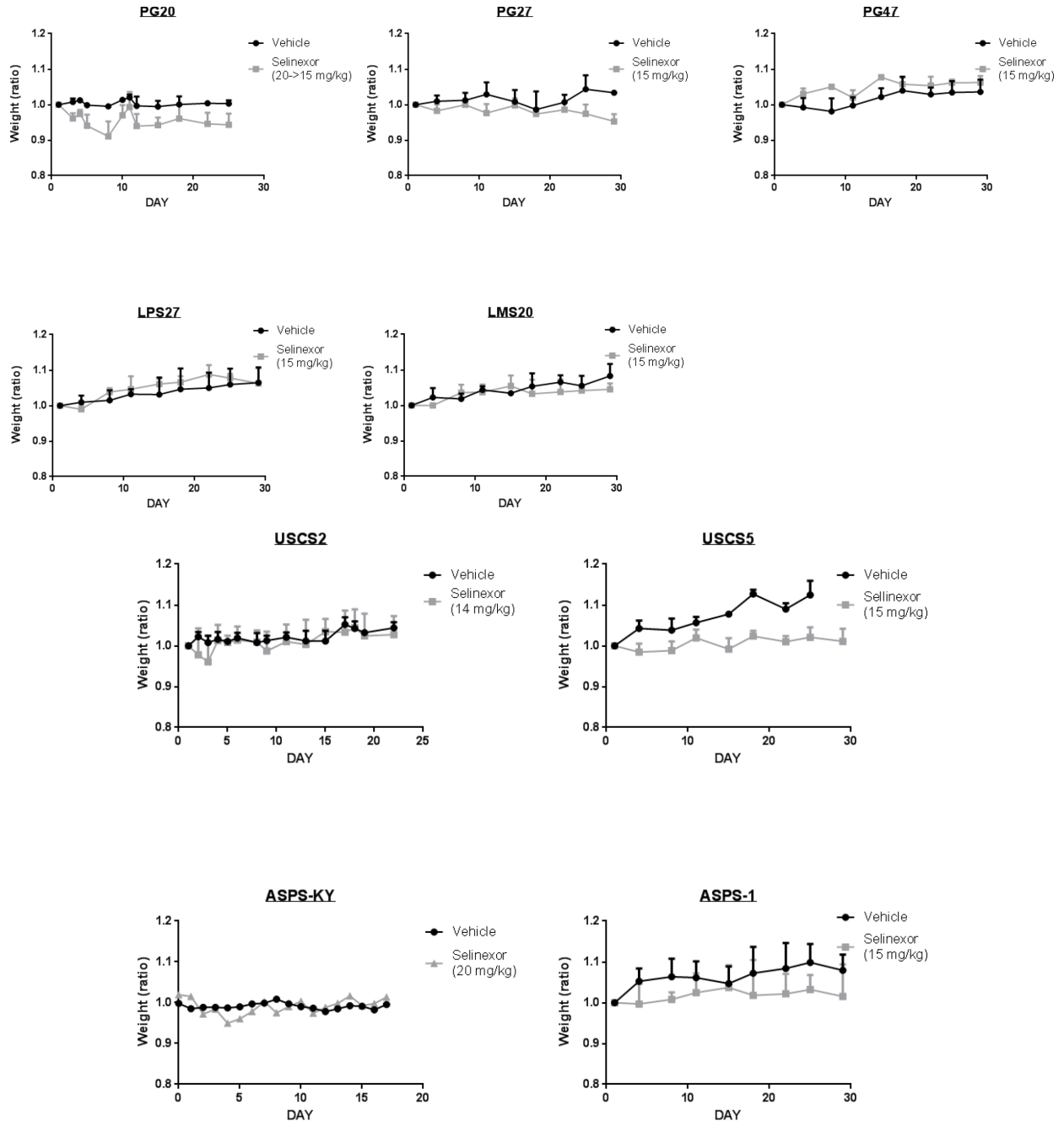
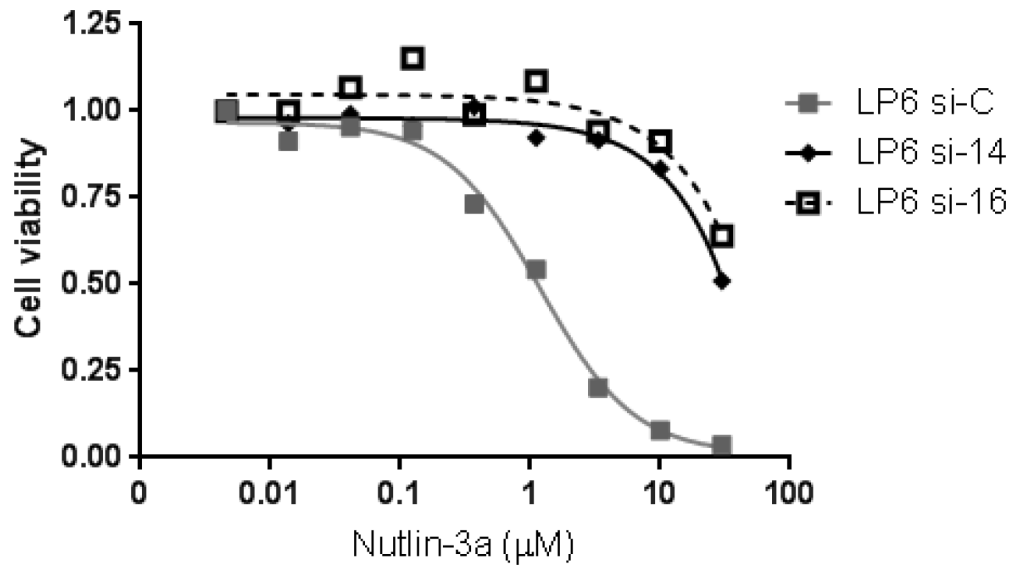


Preclinical activity of selinexor, an inhibitor of XPO1, in sarcoma

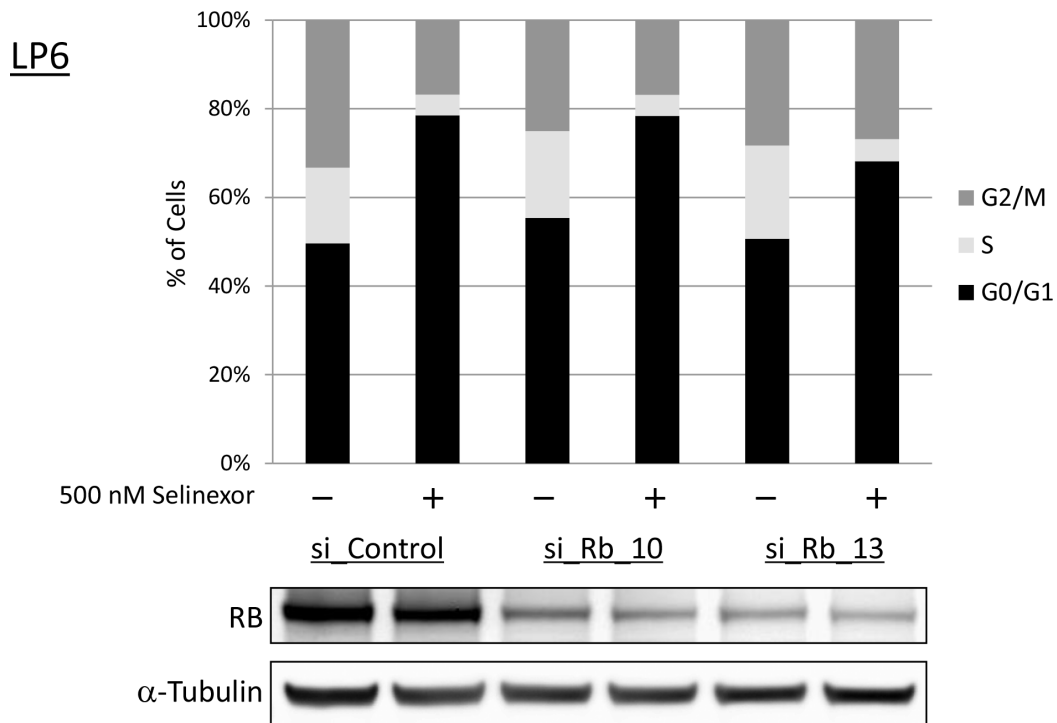
Supplementary Materials



Supplementary Figure S1: Change in mice weight by selinexor treatment in each sarcoma xenograft model. The Y-axis indicates average changes in weight from day 1.



Supplementary Figure S2: Cell viability assay in the p53-knocked down LP6 lines following the 72-hour exposure to the serial concentration of Nutlin-3a.



Supplementary Figure S3: Selinexor induced cell cycle arrest in LP6 independently of RB expression. (A) Cell cycle analysis by propidium iodide staining in the LP6 line treated with siRNA for RB. The cells were fixed following 24-hour exposure of selinexor. (B) Protein expression analysis in the RB-knocked down LP6 lines following 24-hour exposure of selinexor.

Supplementary Table S1: Cell lines for *in vitro* experiments and their sensitivity to selinexor

Histology	Cell line	IC ₅₀ (nM)	Notes
GIST			
	GIST-T1	69.1	Taguchi et al. Lab Inv 2002 (ref.39)
	GIST-T1/829	91.2	Imanitib-resistant subclone from GIST-T1
	PG27	55.2	
Liposarcoma			
	LP6	51.5	High-copy MDM2 amplification
	LPS12	31.1	Low-copy MDM2 amplification
	LPS141	71.3	High-copy MDM2 amplification
	LPS510	121.6	Mutant p53
Leiomyosarcoma			
	LMS14	43.9	
	LMS17	101.3	
	LMS20	128.4	
Rhabdomyosarcoma			
	RMS559	66.1	
	RMS2	53.3	
Undifferentiated sarcoma			
	USCS2	49.5	
	USCS5	28.8	
	SCPS	218.2	
ASPS			
	ASPS-KY	2099	Hoshino et al. Cancer genetics and cytogenetics 2009 (ref.40)
	ASPS-1	4262	Kenney at al. J Pediatr Hematol Oncol 2011 (ref.41)

*GIST, gastrointestinal stromal tumor; ASPS, alveolar soft part sarcoma.

Supplementary Table S2: Xenograft models

Histology	Name of Model	Type of Model	Notes
GIST			
	PG20	PDX	SDH deficient
	PG27	PDX	Corresponding to the cell line in Table 1
	PG47	PDX	
LPS			
	LPS27	PDX	High-copy MDM2 amplification
Leiomyosarcoma			
	LMS20	PDX	Corresponding to the cell line in Table 1
Undifferentiated sarcoma			
	USCS2	PDX	Corresponding to the cell line in Table 1
	USCS5	PDX	Corresponding to the cell line in Table 1
ASPS			
	ASPS-KY	Cell line Xenografts	Corresponding to the cell line in Supplementary Table 1
	ASPS-1	PDX	Corresponding to the cell line in Supplementary Table 1

*GIST, gastrointestinal stromal tumor; LPS, liposarcoma; ASPS, alveolar soft part sarcoma; PDX, patient derived xenograft.