

Supplementary Materials

Table S1. The sequences of oligonucleotides used in this study.

Name		Sequence (5' to 3')
siRNA		
<i>PLK1</i>	sense	aga u*ca ccc u*cc uu*a aau* auu
	antisense	uau uua ag*g agg gug au*c uuu
<i>Cd31</i>	sense	gug cau agu uca agu gac aTT
	antisense	ugu cac uug aac uau gca cTT
<i>Vegfr2</i>	sense	cca gug gac gga uga uca aTT
	antisense	uug auc auc cgu cca cug gTT
primer		
<i>PLK1</i>	forward	CTC CTT GAT GAA GAA GAT CAC C
	reverse	GAA GAA GTT GAT CTG CAC GC
<i>GAPDH</i>	forward	CCT CTG ACT TCA ACA GCG AC
	reverse	CGT TGT CAT ACC AGG AAA TGA G
<i>Cd31</i>	forward	TAC AGT GGA CAC TAC ACC TG
	reverse	GAC TGG AGG AGA ACT CTAAC
<i>Vegfr2</i>	forward	GAT TTC ACC TGG CAC TCT C
	reverse	CTT GGT CAC TCT TGG TCA C
<i>Actb</i>	forward	GAA GGA GAT TAC TGC TCT GG
	reverse	ACA CAG AGT ACT TGC GCT CA

upper case, DNA; lower case, RNA; *, 2'-OMe modification.

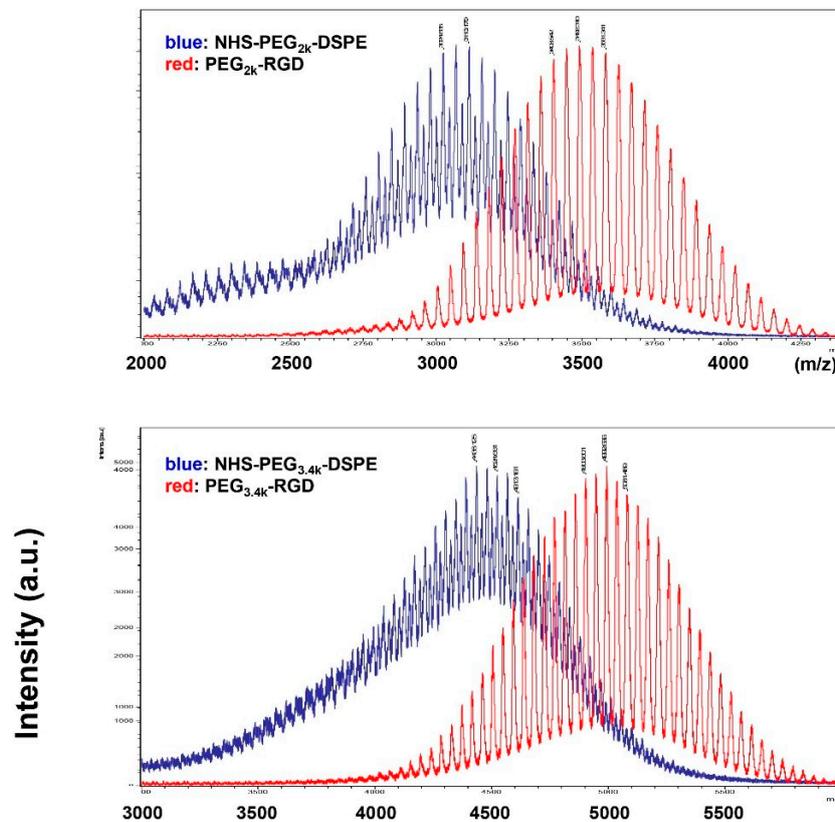


Figure S1. Cont.

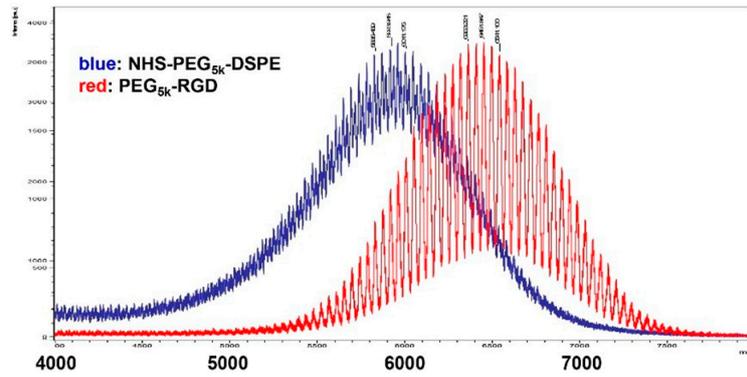


Figure S1. The mass spectrum of RGD PEG-lipids. Purified RGD PEG-lipids were subjected to matrix assisted laser desorption ionization time-of-flight mass spectrometry (MALDI TOF-MS).

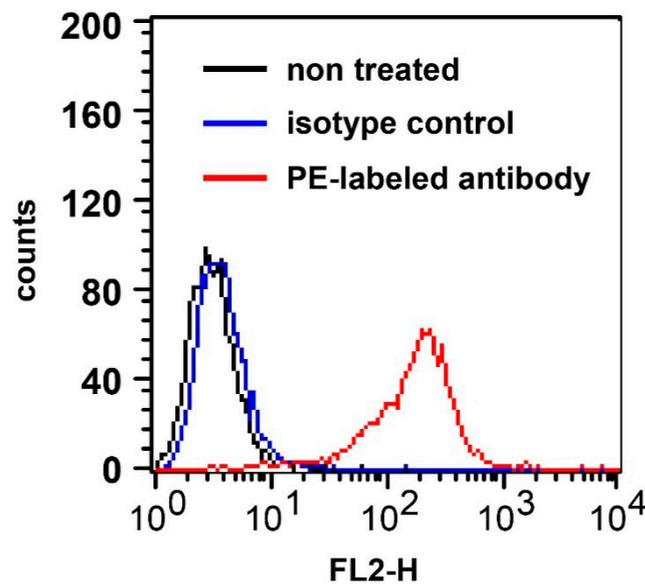


Figure S2. The $\alpha\beta 3$ integrin expression of OS-RC-2 cells. To measure protein expression, 1.0×10^5 trypsinized cells were treated with $1 \mu\text{g}$ of PE-labeled antibody on ice. Then, cells were analyzed by flow cytometry, FACSCalibur (Becton Dickinson). Black, blue and red lines means, non-treated cells, cells treated with isotype control antibody and cells treated with PE-labeled antibody against $\alpha\beta 3$ integrin, respectively.

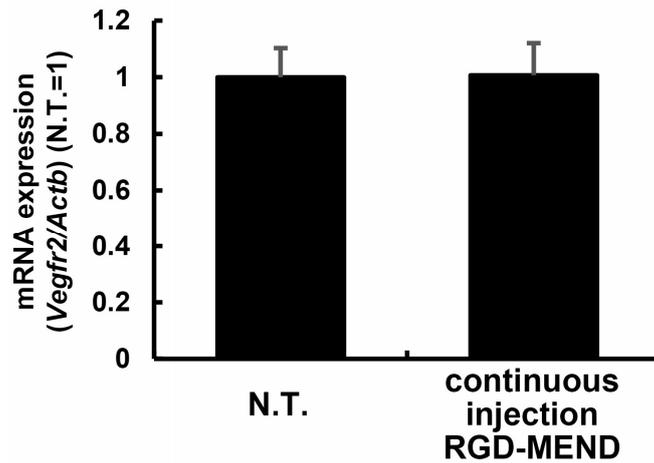


Figure S3. The gene silencing 1 week after the injection. The optimized RGD-modified MEND_{in vivo} was administered into mice via the tail vein 3 times every a day, and then 1 week after the third administration *Vegfr2* mRNA level was determined by qRT-PCR.

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