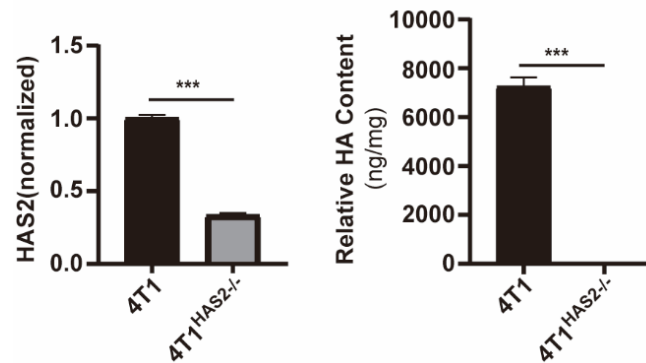


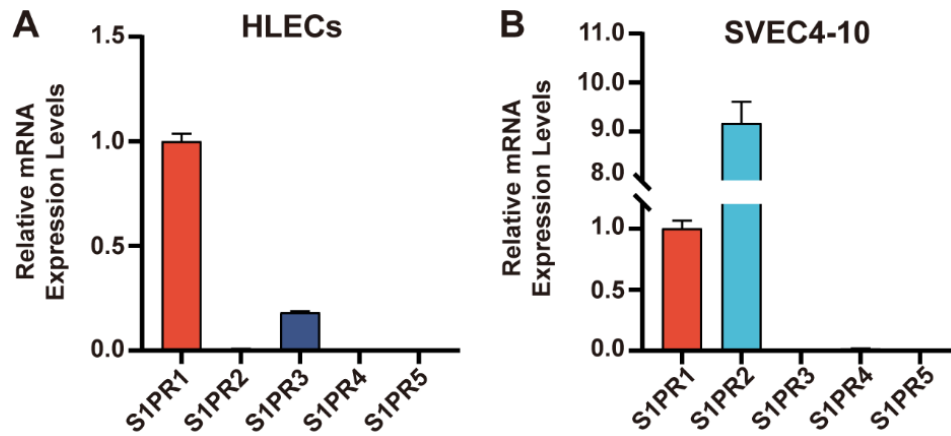
Supplementary Figure

Supplementary Figure1



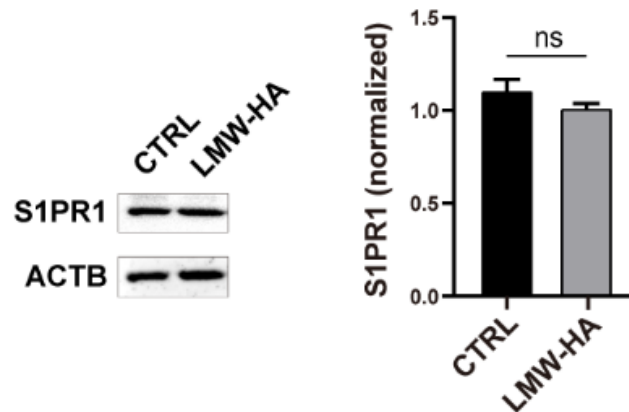
Supplementary Figure 1. The expression level of hyaluronan acid synthase 2 (HAS2). The expression level of hyaluronan acid synthase 2 (HAS2) in 4T1 and 4T1^{HAS2-/-} cells, and the relative amount of HA in the conditioned medium dramatically decreased after HAS2 knocking out.

Supplementary Figure 2



Supplementary Figure 2. Expression patterns of five S1P receptors in LECs. The expression of S1PR1-5 in HLECs (A) and SVEC4-10 (B) was measured by RT-PCR.

Supplementary Figure 3



Supplementary Figure 3. LMW-HA had little effect on S1PR1 expression. S1PR1 was detected by immunoblots after treated as indicated. β -actin was used as the loading control.

Supplementary Table 1. The sequence information of primers is as followed.

	primer	sequence (5'—3')
human	S1PR1-F	CCACAACGGGAGCAATAACT
	S1PR1-R	CAGAATGACGATGGAGAGCA
	S1PR2-F	CCAAGCATTATGTGCTGTGC
	S1PR2-R	CAGAAGGAGGATGCTGAAGG
	S1PR3-F	TGATTGTGGTGAGCGTGTTCA
	S1PR3-R	GGCCACATCAATGAGGAAGAG
	S1PR4-F	CCAAGCGCTACATCCTCTTC
	S1PR4-R	CAGAGGTTGGAGCCAAAGAC
	S1PR5-F	GGTCATCGTCCTGCATTACA
	S1PR5-R	AGCAGATCCGACAACGTGA
	β -actin-F	TCTACAATGAGCTGCGTGTG
	β -actin-R	ATGGCTGGGGTGTGAAG
mouse	S1PR1-F	TCTGCTCCTGCTTCCATCG
	S1PR1-R	AGGATGTCACAGGTCTTCGC
	S1PR2-F	TTCTGGAGGGTAACACAGTGGT
	S1PR2-R	ACACCCTTTGTATCAAGTGGA
	S1PR3-F	ACCGCGTGTTCCTTCTGATT
	S1PR3-R	TTGACCAGGCAGTAGATGCG
	S1PR4-F	GTCAGGGACTCGTACCTTCCA
	S1PR4-R	GATGCAGCCATACACACGG
	S1PR5-F	GCTTTGGTTTGCGCGTGAG
	S1PR5-R	GGCGTCCTAAGCAGTCCAG
	β -actin-F	CCCTCTGAACCCTAAGGCCA
	β -actin-R	GGGACAACACAGCCTGGATG