



**Supplemental Figure 1. Prox1 Expression in Cultures of Primary LECs Isolated from Different Species and Anatomical Regions.** Representative western blot showing expression of Prox1 and Cyclophilin B in protein lysates prepared from primary cultures of LECs from mouse inguinal axillary vessels, and mesenteric collecting lymphatics from rat and monkey respectively.

Product	Strand	Sequence (5'-3')	Amplicon (bp)	Exon
<b>Prox1</b>	s	GTA AGA CAT CAC CGC GTG C	218	1
	as	TCA TGG TCA GGC ATC ACT GG		2
<b>eNos</b>	s	CTG CCA CCT GAT CCT AAC TTG	143	22
	as	CAG CCA AAC ACC AAA GTC ATG		23
<b>Cdh5</b>	s	CTT CCT TAC TGC CCT CAT TGT	313	3
	as	CTG TTT CTC TCG GTC CAA GTT		5
<b>Fit4</b>	s	AAG ACC CCG ACT ATG TCC GA	262	23
	as	CAA CTC TGC ATG ATG TGG CG		26
<b>Pecam1</b>	s	CTG CCA GTC CGA AAA TGG AAC	218	1
	as	CTT CAT CCA CTG GGG CTA TC		3
<b>Myh11</b>	s	AAG CTG CGG CTA GAG GTC A	238	33
	as	CCC TCC CTT TGA TGG CTG AG		34
<b><math>\alpha</math>-actin</b>	s	GAG CTA CGA ACT GCC TGA C	129	7
	as	CTG TTA TAG GTG GTT TCG TGG A		8
<b>CaV1.2</b>	as	GGA ACT GAC GGT AGA GAT GGT TGC	234	2
	s	ATG GTC AAT GAA AAC ACG AGG ATG		1
<b>Calponin1</b>	s	AGA AAT ACG ACC ATC AGC GG	149	2
	as	CTT CAC AGA ACC CGG CTG		3
<b>Pdgfra</b>	s	AGA GTT ACA CGT TTG AGC TGT C	252	8
	as	GTC CCT CCA CGG TAC TCC T		10
<b>Pdgfr<math>\beta</math></b>	s	AGC TAC ATG GCC CCT TAT GA	367	16
	as	GGA TCC CAA AAG ACC AGA CA		19
<b>NG2</b>	as	CTT CAC GAT CAC CAT CCT TCC	132	6
	s	CCC GAA TCA TTG TCT GTT CCC		5
<b>Kit</b>	s	CGCCTGCCGAAATGTATGACG	162	21
	as	GGTTCTCTGGGTGGGGTTGC		23
<b>Vimentin</b>	s	CTGTACGAGGAGGAGATGCG	249	1
	as	AATTTCTTCTGCAAGGATT		3
<b>Desmin</b>	s	GTGGATGCAGCCACTCTAGC	218	3
	as	TTAGCCGCGATGGTCTCATAC		4
<b>Cd146</b>	s	CCCAAACCTGGTGTGCGTCTT	220	1
	as	GGAAAATCAGTATCTGCCTCTCC		3
<b>Cd11b</b>	s	ATG GAC GCT GAT GGC AAT ACC	203	13
	as	TCC CCA TTC ACG TCT CCC A		14
<b>Cd34</b>	as	GGT ACA GGA GAA TGC AGG TC	119	2
	s	CGT GGT AGC AGA AGT CAA GT		1
<b>Cx47</b>	s	TCC ACA ATC ATT CCA CCT TCG	193	1
	as	CAG AAG CGC ACA TGA GAC AG		2
<b>Cx45</b>	s	GGT AAC AGG AGT TCT GGT GAA	140	2
	as	TCG AAA GAC AAT CAG CAC AGT		3
<b>Cx43</b>	s	ACA GCG GTT GAG TCA GCT TG	106	1
	as	GAG AGA TGG GGA AGG ACT TGT		2
<b>Cx40</b>	s	GGT CCA CAA GCA CTC CAC AG	136	1
	as	CTC AAT GGT ATC GCA CCG GAA		2
<b>Cx37</b>	s	CCC ACA TCC GAT ACT GGG TG	220	1
	as	CGA AGA CGA CCG TCC TCT G		2

**Supplemental Table 1. List of Primers used for RT-PCR.**