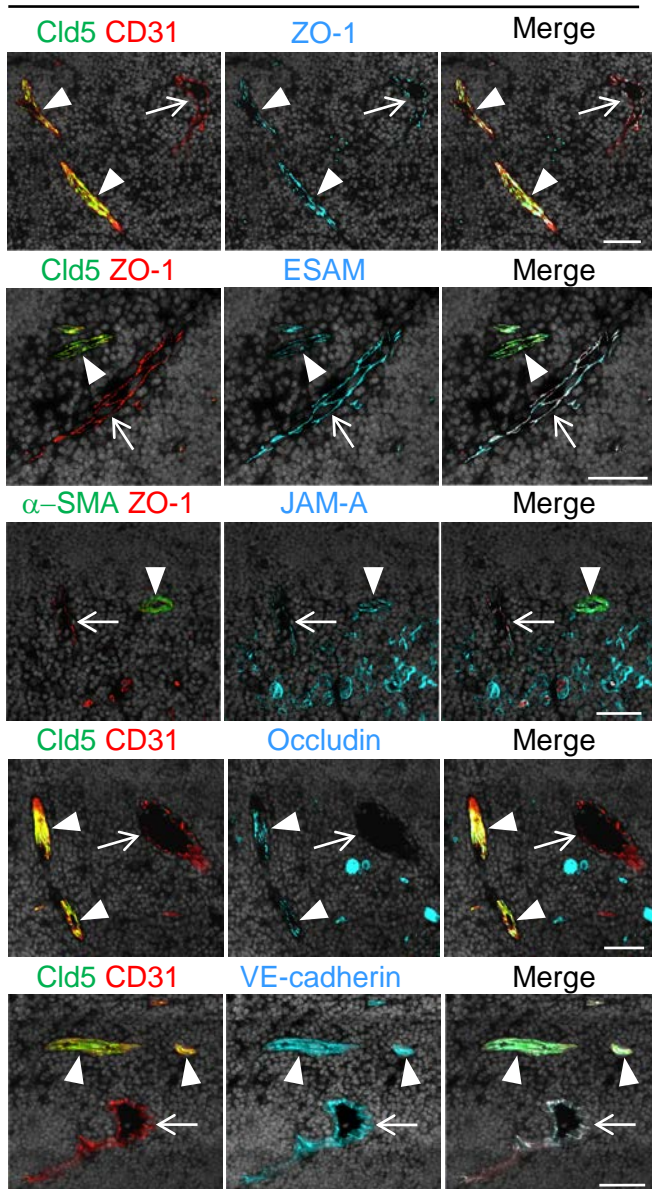
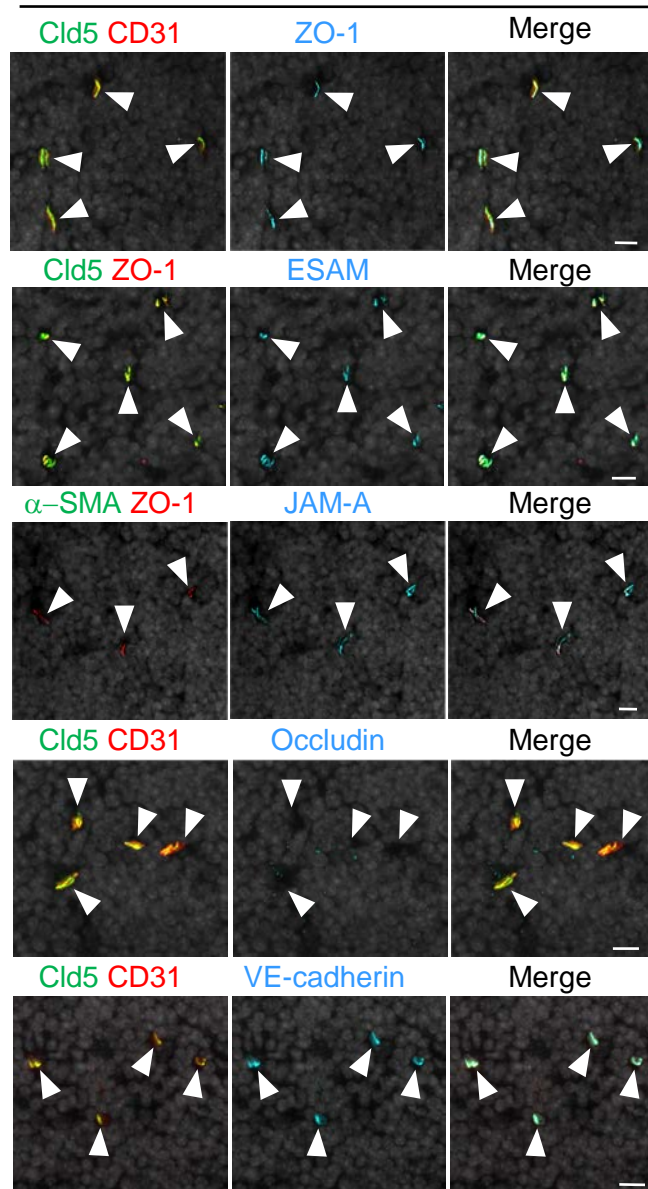


Supplemental Figure 1

## Medulla & CMJ



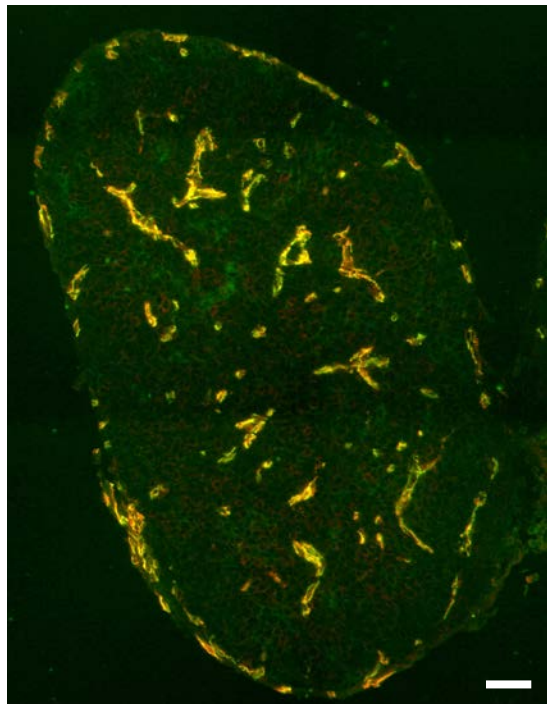
## Cortex



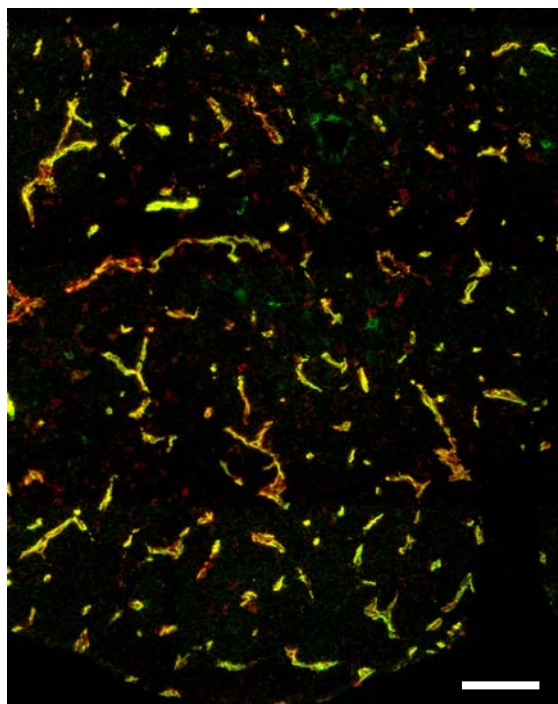
Location	Morphology	Smooth muscles	Junctional molecules						
			TJ					AJ	
			$\alpha$ -SMA	Cld5	Occ	ZO-1	ESAM	JAM-A	Cld12
Medulla and CMJs	Arterioles	High	+	+	+	+	+	-	+
Medulla and CMJs	Venules/PCVs	Low	-	-	+	+	+	-	+
Cortex	Capillaries	-	+	-	+	+	+	-	+

Cld5 CD31

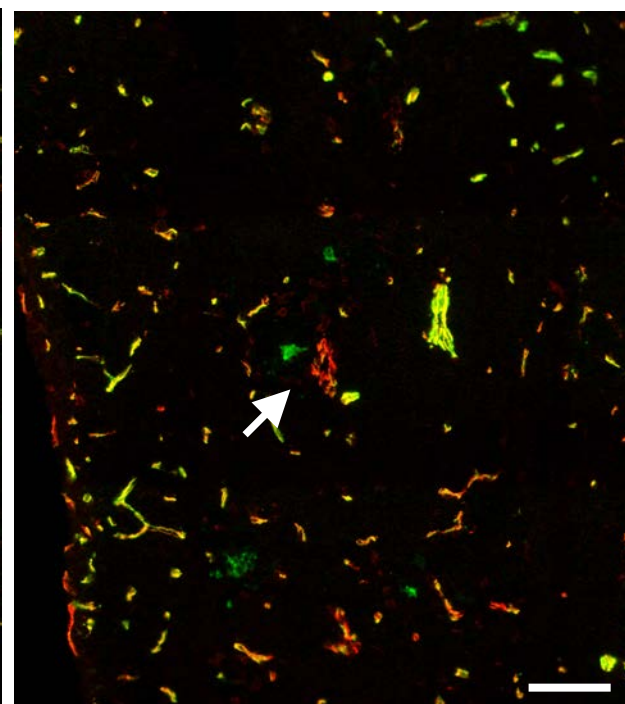
E14.5



E16.5



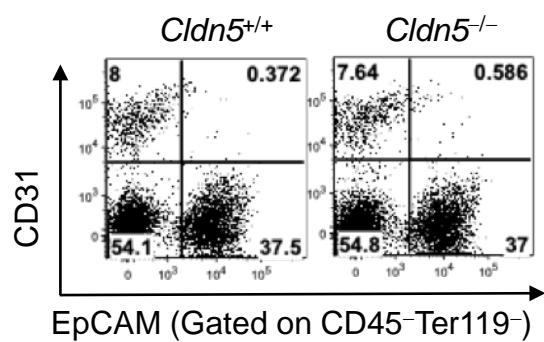
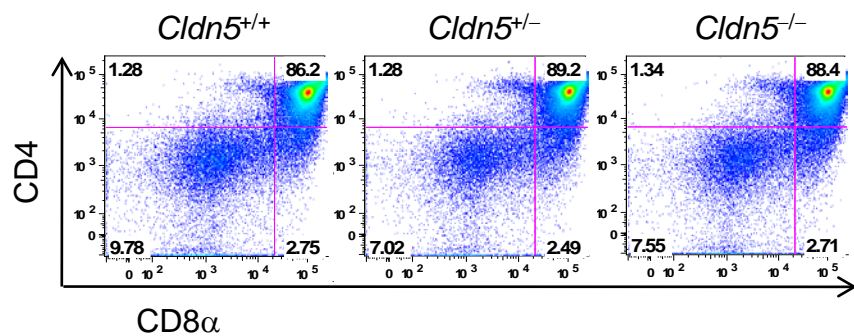
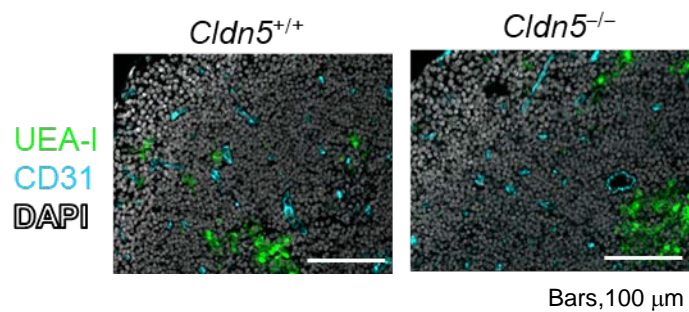
E18.5



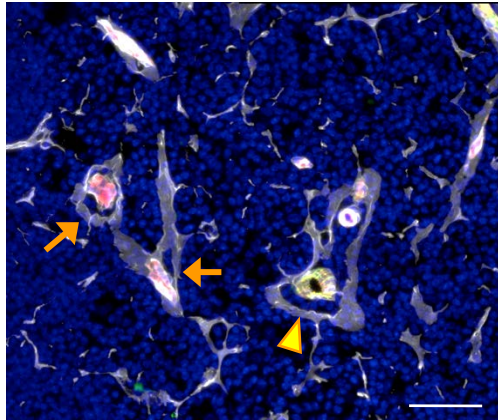
Bars, 100 $\mu$ m

Supplemental  
Figure 4

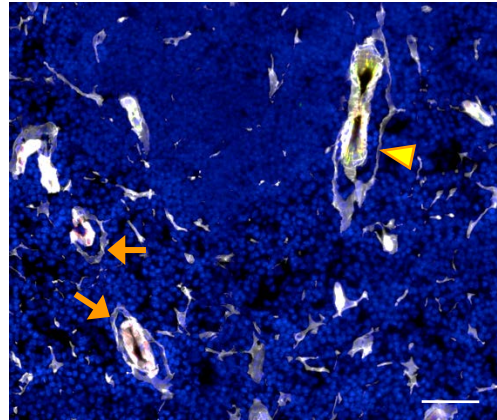


**A****B****C**

Cld5 CD31 Laminin DAPI



Cld5 CD31 Collagen IV DAPI



Bars, 50 $\mu$ m

Supplemental  
Figure 6

**Establishment of  
Blood-Thymus Barrier**

**Gateway to  
Blood Circulation**

**Cortex**

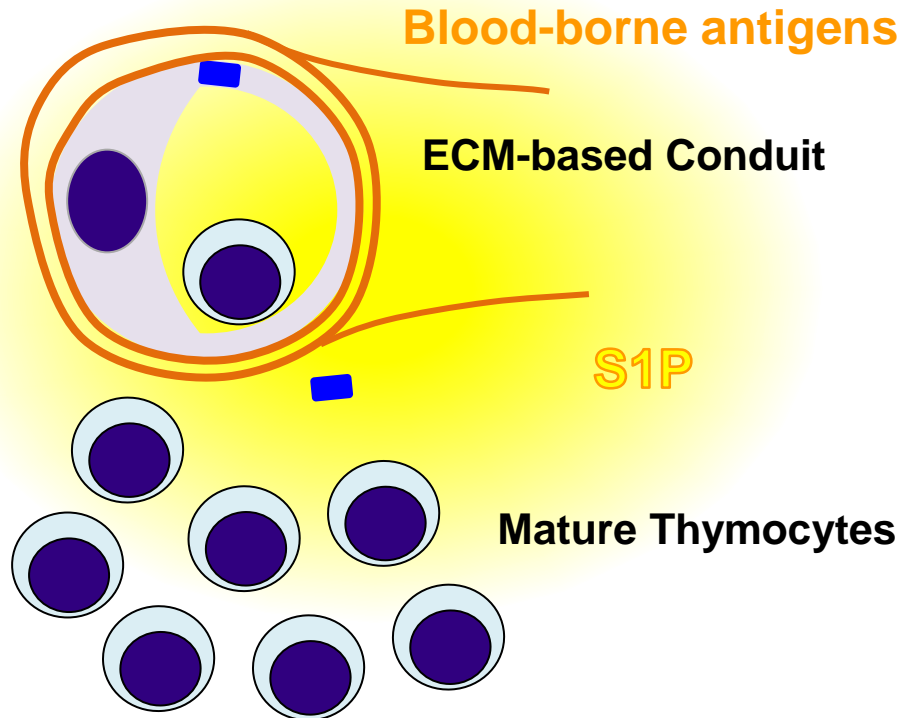
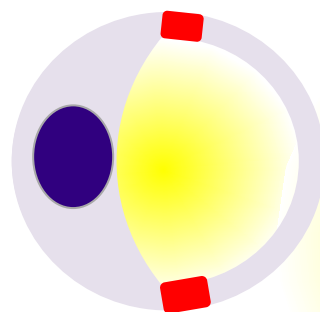
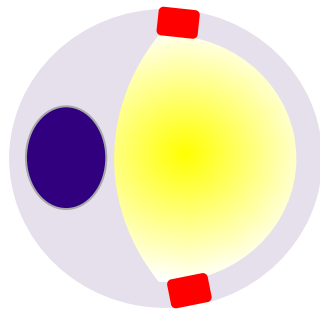
**Cortico-Medullary Junction**

**Medulla**

**Claudin-5<sup>+</sup>**

**Claudin-5<sup>+</sup>**

**Claudin-5<sup>-</sup>**



**Endothelial  
cells**

**Mature Thymocytes**