



Efficient induction of endothelial progenitor cells from iPS cells

# iMatrix-411

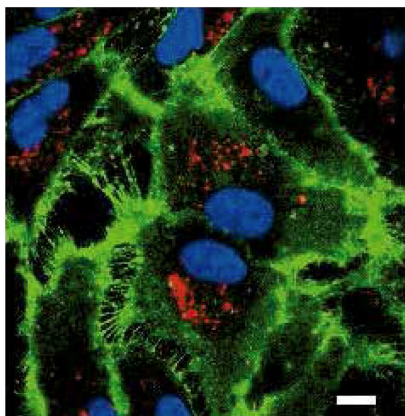
iMatrix-411 is a recombinant fragment that retains full integrin binding activity of laminin-411.

## Features

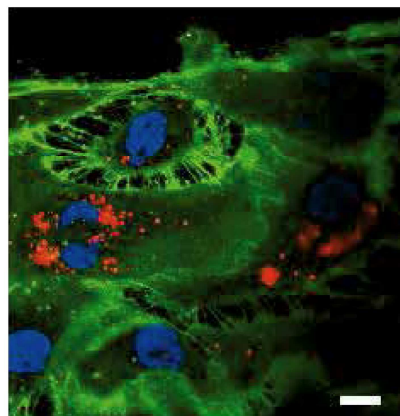
- The ECM substrate switch from laminin-511 E8 to laminin-411 E8 efficiently induces endothelial progenitor cells from iPS cells
- A highly purified and refined product of human recombinant laminin-411 E8 fragment expressed by CHO-S cells
- Feeder-free culture

Induce endothelial cells from pluripotent stem cells

**Endothelial cells  
derived from human ES cell line  
KhES-1**



**Endothelial cells  
derived from human iPS cell line  
253G4**



Ohta R et al., *Scientific Reports*, **6**(35680), 1-12, 2016.

Phenotypes of endothelial cells induced from pluripotent stem cells on iMatrix-411 coated plate  
acetyl-LDL uptake (red), CD31 (green) expression, and nuclear staining (blue)

Scale bar: 10  $\mu$ m

References

Takayama K et al., Laminin 411 and 511 promote the cholangiocyte differentiation of human induced pluripotent stem cells. *Biochemical and biophysical research communications*, **474** (1), 91-96, 2016

Ohta R et al., Laminin-guided highly efficient endothelial commitment from human pluripotent stem cells. *Scientific Reports*, **6**(35680), 1-12, 2016

	Product No.	Contents
iMatrix-411	892 041	350 $\mu$ g : 175 $\mu$ g $\times$ 2 pcs.
	892 042	1,050 $\mu$ g : 175 $\mu$ g $\times$ 6 pcs.

One mg of iMatrix-411 is enough to coat more than 35 6-well plates for normal use. (Recommended concentration: 0.5  $\mu$ g/cm<sup>2</sup>)

Manufactured by

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