



Efficient induction of endothelial progenitor cells from iPS cells

# iMatrix-411

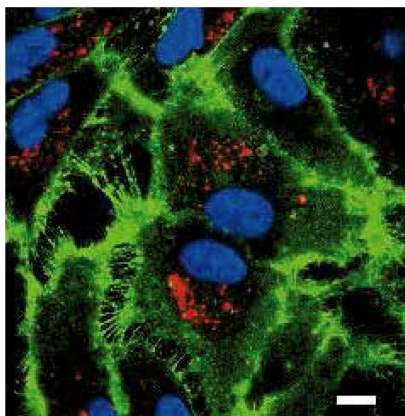
iMatrix-411 is a recombinant fragment that retains full integrin binding activity of laminin-411.

## Features

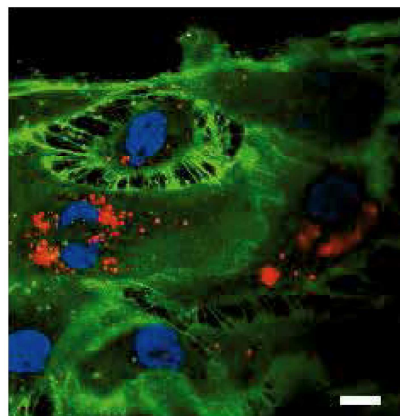
- The ECM substrate switch from laminin-511 E8 to laminin-411 E8 efficiently induces endothelial progenitor cells from iPS cells
- A highly purified and refined product of human recombinant laminin-411 E8 fragment expressed by CHO-S cells
- Feeder-free culture

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
<b>iMatrix-411</b>	<b>892 041</b>	<b>350 <math>\mu</math>g : 175 <math>\mu</math>g<math>\times</math>2 pcs.</b>
	<b>892 042</b>	<b>1,050 <math>\mu</math>g : 175 <math>\mu</math>g<math>\times</math>6 pcs.</b>

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

**Nippi, Inc.**

1-1-1 Senju Midori-Cho, Adachi, Tokyo 120-8601, JAPAN  
PHONE: +81-3-3888-5184. FAX: +81-3-3888-5136  
E-mail: protein-info@nippi-inc.co.jp  
<http://www.nippi-inc.co.jp/>

Designed by

**Matrixome, Inc.**

3-2 Yamadaoka, Suita-shi, Osaka 565-0871, JAPAN  
Institute for Protein Research, Osaka University  
PHONE: +81-6-6877-0222 FAX: +81-6-6877-0002  
E-mail: info@matrixome.co.jp  
<http://www.matrixome.co.jp/en/>

Distributor in Malaysia:

**Wan Care Scientific Sdn Bhd** (1214556-D)

**6-11, Jalan Puteri 4/8, Bandar Puteri, 47100, Puchong, Selangor.**

**Contact us today!**

**Mr Wan 012-678 9211 | [wan.wancare@gmail.com](mailto:wan.wancare@gmail.com)**

**Ms Emily 019-276 6638 | [emily.wancare@gmail.com](mailto:emily.wancare@gmail.com)**