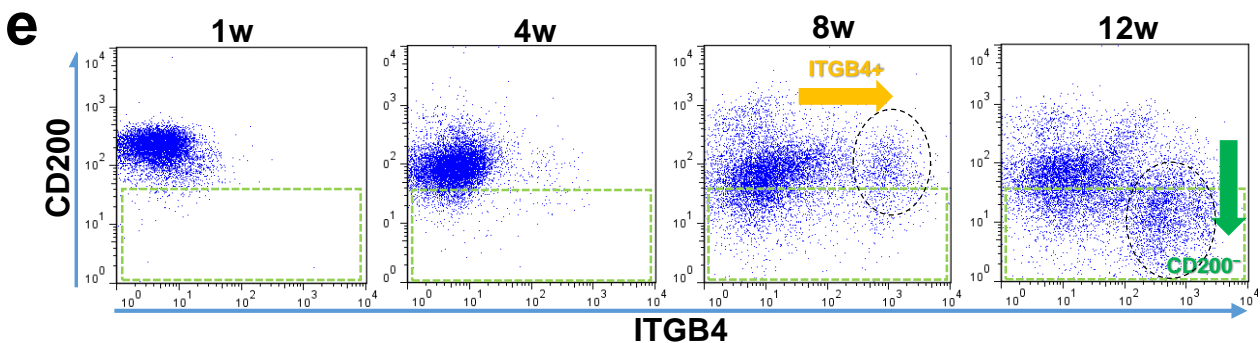
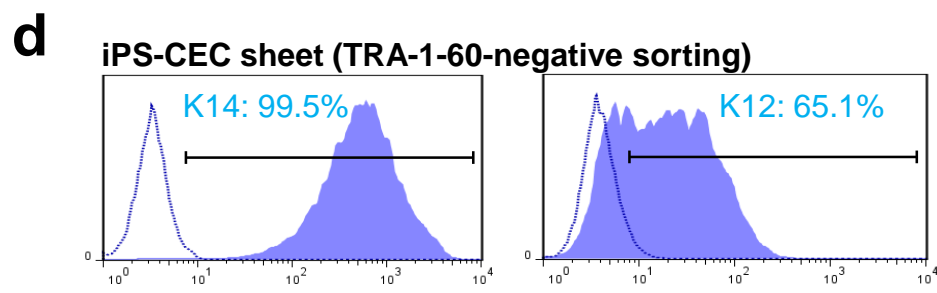
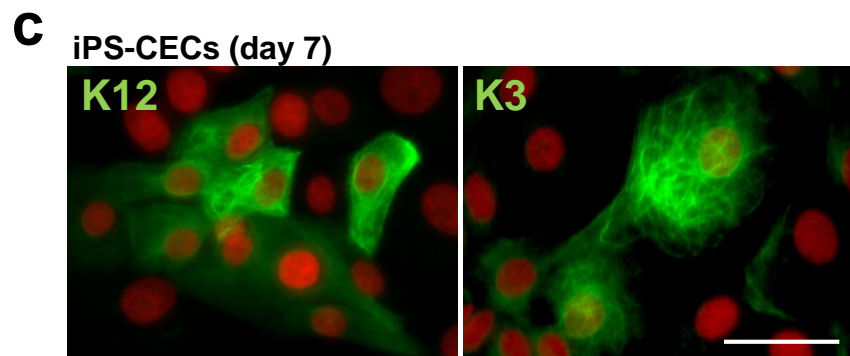
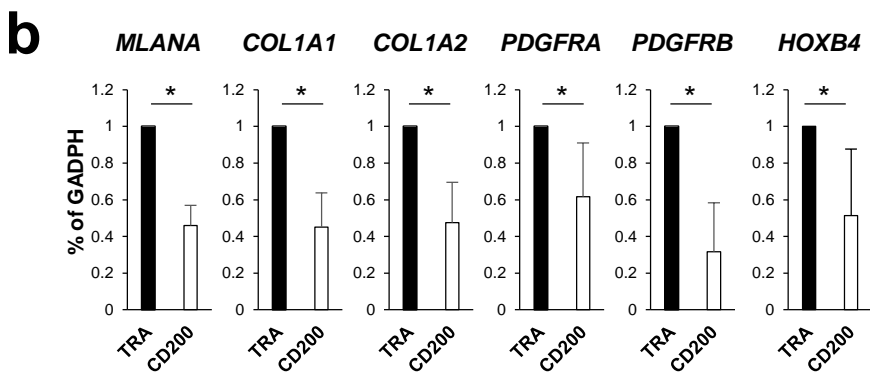
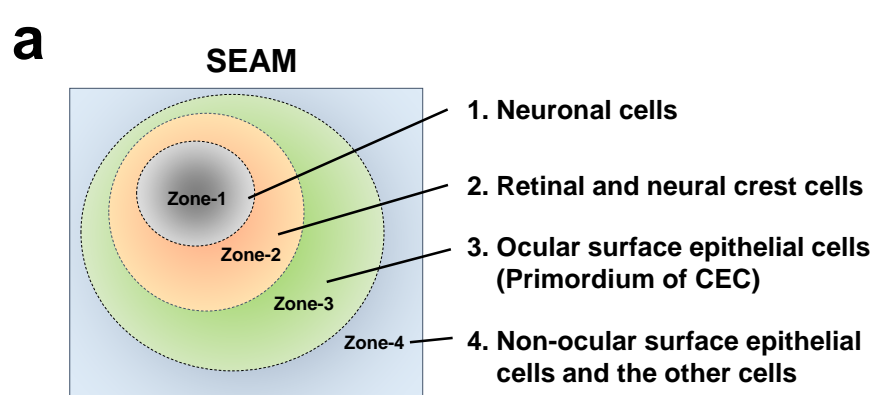


# **CD200 facilitates the isolation of corneal epithelial cells derived from human pluripotent stem cells**

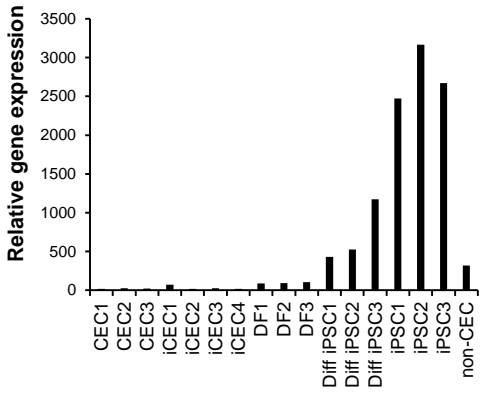
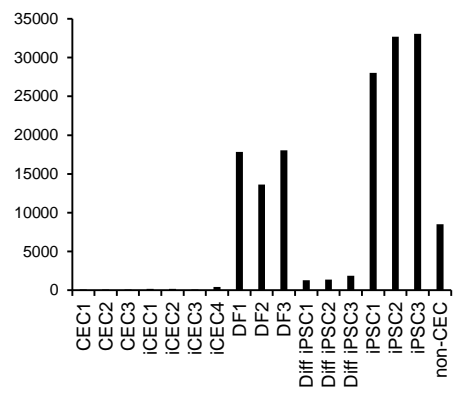
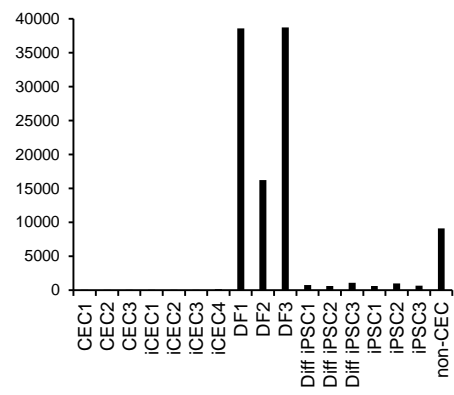
Ryuhei Hayashi<sup>1,2\*</sup>, Yuki Ishikawa<sup>2</sup>, Tomohiko Katayama<sup>2</sup>, Andrew J. Quantock<sup>3</sup>, and Kohji Nishida<sup>2\*</sup>

<sup>1</sup> Department of Stem Cells and Applied Medicine, Osaka University Graduate School of Medicine, Suita, Osaka, 565-0871, Japan. <sup>2</sup> Department of Ophthalmology, Osaka University Graduate School of Medicine, Suita, Osaka, 565-0871, Japan. <sup>3</sup> Structural Biophysics Group, School of Optometry and Vision Sciences, College of Biomedical and Life Sciences, Cardiff University, Cardiff, CF24 4HQ, Wales, UK.

\*Corresponding to [ryuhei.hayashi@ophthal.med.osaka-u.ac.jp](mailto:ryuhei.hayashi@ophthal.med.osaka-u.ac.jp) and [knishida@ophthal.med.osaka-u.ac.jp](mailto:knishida@ophthal.med.osaka-u.ac.jp)



**Supplementary Figure S1**

**a****CD200****FGFR1****PDGFRB**

iCEC: iPSC-derived CECs,  
DF: Dermal fibroblasts,  
Diff iPSC: 6 weeks differentiated iPSCs  
non-CEC: Non-CEC colonies

<b>Antigen</b>	<b>Description</b>	
<b>K12</b>	Goat polyclonal; N-16	Santa Cruz Biotechnology, Santa Cruz, CA, USA
<b>K3</b>	Mouse monoclonal; AE5	PROGEN Biotechnik, Heidelberg, Germany
<b>MUC16</b>	Mouse monoclonal; OV185:1	Abcam, Cambridge, MA, USA
<b>p63</b>	Mouse monoclonal; 4A4	Santa Cruz Biotechnology
<b>p40 (delta-N p63)</b>	Rabbit polyclonal; API 3030 AA	Biocare Medical, Concord CA
<b>K14</b>	Rabbit polyclonal; Poly19053	Biolegend
<b>K15</b>	Rabbit monoclonal; EPR1614Y	Abcam
<b>K4</b>	Mouse monoclonal; 6B10	Abcam
<b>K13</b>	Mouse monoclonal; AE8	Abcam
<b>Pan-cytokeratin (K5/K8)</b>	Mouse monoclonal; FITC-conjugated	PROGEN Biotechnik
<b>PAX6</b>	Rabbit polyclonal; PRB-278P	Covance Research Products, Denver, PA, USA
<b>CD200</b>	Mouse monoclonal; OX-104 PE-conjugated	Biolegend
<b>CD200</b>	Goat polyclonal; AF2724 (for mouse tissues)	R&D systems, Minneapolis, MN, USA

## Supplementary Table S1

<b>Target gene</b>	<b>Assay ID</b>
<i>GAPDH</i>	Hs99999905_m1
<i>PAX6</i>	Hs00240871_m1
<i>DN-p63</i>	Hs00978339_m1
<i>K3</i>	Hs00365080_m1
<i>K10</i>	Hs00166289_m1
<i>K12</i>	Hs00165015_m1
<i>K13</i>	Hs00999762_m1
<i>K18</i>	Hs01941416_g1
<i>CDH1</i>	Hs01023894_m1
<i>CDH2</i>	Hs00983056_m1
<i>CRYAA</i>	Hs00166138_m1
<i>18S</i>	Hs99999901_s1
<i>CD200</i>	Hs01033303_m1
<i>POU5F1</i>	Hs00999632_g1
<i>FGFR1</i>	Hs00915142_m1
<i>SOX2</i>	Hs01053049_s1
<i>SOX9</i>	Hs00165814_m1
<i>RPE65</i>	Hs01071462_m1
<i>TUBB3</i>	Hs00801390_s1
<i>VSX2</i>	Hs01584047_m1
<i>HOXA1</i>	Hs00939046_m1
<i>HOXB4</i>	Hs00256884_m1
<i>MLANA</i>	Hs00194133_m1
<i>COL1A1</i>	Hs00164004_m1
<i>COL1A2</i>	Hs01028956_m1
<i>PDGFRA</i>	Hs00998018_m1
<i>PDGFRB</i>	Hs00182163_m1
<i>RUNX1</i>	Hs01021971_m1
<i>AQP5</i>	Hs00387048_m1

## Supplementary Table S2