

For research use only  
Not for use in diagnostic procedures

# iMatrix-332

Product No. 892 031 350 µg  
Product No. 892 032 1,050 µg



Version 001  
Store at 2-15°C

**Product description:** iMatrix-332 is a recombinant human laminin-332 E8 fragment protein expressed in Chinese Hamster Ovary (CHO)-S cells. iMatrix-332 contains the integrin-binding site of the laminin-332 molecule. iMatrix-332 is useful for differentiation of iPSC and ESCs into corneal epithelial cells. iMatrix-332 also supports the culture of the other cells adhering to laminin-332 such as keratinocytes.

**Content:** Recombinant human laminin-332 E8 fragment protein in 20 mM phosphate buffer, 500 mM NaCl

**Protein concentration:** 0.5 mg/mL

**Amount:** 175 µg / 0.35 mL / tube  
Product No. 892 031 350 µg / 2 tubes  
Product No. 892 032 1,050 µg / 6 tubes

**Storage:** Store at 2°C to 15°C, protect from light.

**Expiration date:** The shelf life is 2 years from the date of manufacture. The expiration date is printed on the carton.

**Methods of use:** By the following method iMatrix-332 can be coated onto a culture vessel. **The optimum coating density may differ by cell-type, cell-line, medium selected, or purpose.** Insufficient coating density may result in the detachment of cells and varied cell conditions while the excessive coating density may lead to difficulty in detaching cells for passage.

## **Coating protocol**

Determine the optimal coating density. 0.5 µg/cm<sup>2</sup> is a standard but test between 0.1 and 1.5 µg/cm<sup>2</sup>.

- 1) Dilute iMatrix-332 with PBS(-). Use the diluted iMatrix-332 immediately. To coat with 0.5 µg/cm<sup>2</sup> onto a 6-well plate with 9.6 cm<sup>2</sup>/well, dilute 9.6 µL of iMatrix-332 with 2 mL of PBS(-) per well.
- 2) Place the diluted iMatrix-332 into a culture vessel and incubate either at 37°C for 1 h, or at room temperature for 3 h, or at 4°C overnight.
- 3) Aspirate the coating solution. Then, immediately seed your cells. **Do not allow the coated surface to dry.**

\*If you face difficulties in detaching cells for passage, re-adjust the conditions (e.g., reduce the coating

density).

\*Coating protocol is illustrative only.

## **References:**

Nishiuchi R. *et al.* (2006) *Matrix Biol.* **25** (3), 189-97  
Miyazaki T. *et al.* (2012) *Nat. Commun.* **3**, 1236  
Shibata S. *et al.* (2018) *Cell Rep.* **25** (6), 1668-79  
Shibata S. *et al.* (2020) *Stem Cell Reports* **14** (4), 663-76

**Caution:** For research use only. Not intended for human use. In the event of accidental ingestion or contact with the eyes, immediately wash the affected area and seek medical attention.

**Product information:** Current information including references and Q&A are available on the website of Matrixome, Inc. Please use the URL or QR code below.

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