

GFP Expressing Human Retinal Microvascular Pericytes

ORDER INFORMATION

| Name of Cells: | GFP Expressing Human Retinal Microvascular Pericytes Cells | | |
|--------------------------|--|--|--|
| | (GFP-HRMPCs) | | |
| Catalogue Number: | cAP-0025GFP | | |
| Product Format: | Proliferating culture | | |
| Cell Number: | > 90% confluent (> 3 x 10 ⁵ cells) in T25 flask | | |

General Information

HRMPCs (**cAP-0025**) are initiated by elutriation from dissociated normal human retinal tissue and transfected with GFP-Lentiviral particles at passage two. Puromycin resistant GPF-HRMPCs (cAP-0025GFP) were selected and shipped in proliferating culture with >90 confluence (the cells are provided @ passage 3-5). DMEM medium (contains 10% serum and growth supplements) is recommended for cell culture and these cells have an average population doubling capacity > 10 when cultured <u>following the detailed protocol described below</u>).

Characterization of the cells

| > 80% positive by immunofluorescence | |
|--------------------------------------|--|
| > 80% positive by immunofluorescence | |
| < 2% positive by immunofluorescence | |
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| | |

HRMPCs are negative for HIV-1, HBV, HCV, and mycoplasma.

Product Use

GFP-HRMPCs are for research use only.

Shipping status

Proliferating cells in T25 flask.

Handling of Arriving Cells

When you receive the cells, leave the flask in 37°C CO2 incubator for 1 hour first, and then replace the transport medium with fresh DMEM medium (contains 10% serum and growth supplements). Let the cells grow for 24 hours before subculture.

1. Subculture Protocol:

A) Coating T25 flasks: Add 2ml 0.1% Quick Coating Solution (cAP-01) into one T25 flask and make sure whole surface of the flask is covered with the coating solution. Five minutes later, dispose Quick Coating Solution by aspiration and the flask is

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, angioproteomie@gmail.com



ready to be used (no need for overnight incubation when coated with Quick Coating Solution).

- B) Rinse the cells in T25 flask with 5ml PBS (Room Temperature, <u>RT</u>) twice.
- C) Add 2ml of Trypsin/EDTA (<u>**RT**</u>) (Invitrogen Catalogue number: 25300-062) into T25 flask (make sure the whole surface of the T25 flask is covered with Trypsin/EDTA), and gently dispose the Trpsin/EDTA solution **within 10 seconds** with aspiration.
- D) Leave the T25 flask with the cells at <u>**RT**</u> for 1 minute (the cells will normally come off the surface within 1 minute).
- E) Suspend the cells with 20ml of DMEM medium (contains 10% serum and growth supplements) and the cell suspension is transferred directly into 4 x pre-coated T25 flasks (5ml each, and the cells are subcultured at 1:4 ratio)

(Note: No need spin the cells during the subculture process).

2. Cell culture protocol (proliferating):

- A) Culture medium DMEM medium (contains 10% serum and growth supplements) is changed every 2 days.
- B) The cells normally become confluent within 7 days (when split at 1:4).

3. Preparation of quiescent cells:

A) DMEM-basal medium containing 0.5% FBS is used to induce quiescent pericytes (after 18-24hours).

Other products needed:

| Items | Company | Cat # |
|------------------------|-----------------|-----------|
| Quick Coating Solution | Angio-Proteomie | cAP-01 |
| PBS | Invitrogen | 10010 |
| Trypsin/EDTA | Invitrogen | 25300-062 |

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Caution: Handling human derived products is potentially bioharzadous. Although each cell strain testes negative for HIV, HBV and HCV DNA, diagnostic tests are not necessarily 100% accurate, therefore, proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.