

ACE2-GFP Human Lung Airway Smooth Muscle Cells

Catalog #: HMC001

Storage: Liquid Nitrogen until ready for culture. While Culturing keep in 37°C CO₂ incubator Cell #: >5x10⁵ cells

Product Format: Frozen Vial

GENERAL INFORMATION

HLAWSMCs are isolated from human normal lung small airway tissues. Human Lung Airway Smooth Muscle Cells Expressing ACE2-GFP (HLAWSMCs-ACE2-GFP) were selected from puromycin resistant HLAWSMCs cells after infected with lentiviruses expressing ACE2-GFP and the cells are shipped in frozen vials (provided @ passage 1). Smooth Muscle Growth Medium (contains FBS and Growth factor supplements, SMCM002) is recommended for cell culture and these cells have a minimum average population doubling levels > 8 (2-3 passages) when cultured following the detailed protocol described below)...

Product is for Research use only.

Frozen Vials are shipped in a Dry Ice Package.

CHARACTERIZATION OF THE CELLS

- 1. Alpha-Vascular SMA > 98% positive by immunofluorescence
- 2. VE-Cadherin < 1% positive by immunofluorescence
- 3. HLAWSMCs are negative for HIV-1, HBV, HCV, and mycoplasma

HANDLING OF ARRIVING CELLS

When you receive the dry ice package with cells in frozen vials, transfer the frozen vials of cells into a -80°C freezer for short period storage or a liquid nitrogen tank for long-term storage.

PROTOCOL FOR THAWING THE CELLS AND SUBCULTURE

- 1. Pre-coating of T25 flasks-Add 2 ml each Alphabiocoat (AC001) into a T25 flask to cover the whole surface of the flask, 30 mins later, remove excessive coating solution by aspiration. Rinse with 1xPBS and flask is ready to be used.
- Thaw the frozen cell vial in a 37°C water bath first, and then transfer the cells into the pre-coated T25 flask with 10ml of Smooth Muscle Growth Medium (SMCM002), cells usually become confluent with 1-2 days and ready to be passaged.

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- To passage the cells, rinse the cells in a T25 flask with 5 ml HBSS (RT) twice; then add 2 ml Universal Detachment Solution (RT) (AD002) into one T25 flask; gently dispose the excessive Universal Detachment Solution within 20 seconds by aspiration.
- 4. Leave the T25 flask with the cells at RT or 37°C for 1 min. (Most cells usually will detach from the surface within 1-2 mins.) Otherwise, monitor the cells under a microscope until most of cells become rounded up, and then gently tap the flask against the bench surface, and the cells will move on the surface of the flask.
- 5. Add 5 ml Universal Neutralization Buffer (NB001) and spin down the cells with 800g centrifugation for 5 mins.
- 6. Re-suspend the cell pellet with 10 or 15 ml medium and transfer 5 ml each into 2 or 3 pre-coated T25 flasks (for 1/2 to 1/3 subculture ratio).
- Change medium every 2 or 3 days and the cells usually become confluent within 7 days (when split at a 1/3 ratio).
- 8. To prepare quiescent cells, when cells are nearly confluent, replace with Smooth Muscle Basal Medium (SMCM001) containing 0.5%FBS for about 8-12hrs.

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