

## Product Description

The small airways are located at the interface between alveoli and conducting airways. Airway epithelial cells form a continuous lining in the airways and play a unique role as a protective physical and functional barrier to external deleterious agents. Human small airway epithelial cells (HSAEpC) regulate the immune responses by contributing to host defense through chemokine production [1] and adhesion molecule expression [2]. They also produce liquids contributing to pulmonary fluid balance. Many airway diseases, such as asthma, bronchiolitis, chronic obstructive pulmonary disease, and cystic fibrosis, involve damage to the airway surface epithelium. HSAEpC are qualified for functional studies to investigate disorders such as asthma or pulmonary inflammation.

iXCells Biotechnologies provides high quality HSAEpC, which are isolated from human lung tissue and cryopreserved at P1, with >0.5 million cells in each vial. HSAEpC express cytokeratin-18, -19, and vimentin. They are negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast, and fungi and can further expand for 12 population doublings in Epithelial Cell Growth Medium (Cat# MD-0041) under the condition suggested by iXCells Biotechnologies.

## Product Details

<b>Tissue</b>	Human lung tissue
<b>Package Size</b>	0.5 million cells/vial
<b>Passage Number</b>	P1
<b>Shipped</b>	Cryopreserved
<b>Storage</b>	Liquid nitrogen
<b>Growth Properties</b>	Adherent
<b>Media</b>	Epithelial Cell Growth Medium (Cat# MD-0041)

## References

- [1]. Stellato, C., Beck, L. A., Gorgone, G. A., Proud, D., Schall, T. J., Ono, S. J., Lichtenstein, L. M., and Schleimer, R. P. (1995) J. Immunol. 155, 410-418.
- [2]. Atsuta, J., Sterbinsky, S. A., Plitt, J., Schwiebert, L. M., Bochner, B. S., and Schleimer, R. P. (1997) Am. J. Respir. Cell Mol. Biol. 17, 571-582.
- [3]. Rossi, G. A., Sacco, O., Balbi, B., Oddera, S., Mattioni, T., Corte, G., Ravazzoni, C., and Allegra, L. (1990) Am. J. Respir. Cell Mol. Biol. 3, 431-439.

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