Human Primary Lung Cells
Primary cells for the study of lung diseases

*Asterand Bio’s primary lung cells are human bronchial epithelial cells (HuBECs) and parenchymal fibroblasts, isolated from non-diseased lung or the lungs of donors with: Cystic Fibrosis, Pulmonary Fibrosis, Asthma or COPD.

This research-use only product is suitable for use in the development of functional 2D and 3D cell based assays, analysis of molecular targets, the identification of new diagnostic and prognostic markers as well as additional assays and platforms.

Product details

<table>
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<tr>
<th>Catalog: PCR-90-0226</th>
<th>Non-diseased Bronchial Epithelial Cells</th>
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</thead>
<tbody>
<tr>
<td>Catalog: PCR-60-0221</td>
<td>Cystic Fibrosis Bronchial Epithelial Cells</td>
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<tr>
<td>Catalog: PCR-60-0211</td>
<td>Cystic Fibrosis Parenchymal Fibroblasts</td>
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<td>Catalog: PCR-70-0214</td>
<td>Idiopathic Pulmonary Fibrosis Parenchymal Fibroblasts</td>
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<tr>
<td>Catalog: PCR-70-0213</td>
<td>Pulmonary Fibrosis Parenchymal Fibroblasts</td>
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<td>Catalog: PCR-70-0222</td>
<td>COPD Bronchial Epithelial Cells</td>
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<td>Catalog: PCR-70-0212</td>
<td>COPD Parenchymal Fibroblasts</td>
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<tr>
<td>Catalog: PCR-70-0223</td>
<td>Asthma Bronchial Epithelial Cells</td>
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</tbody>
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BENEFITS OF ASTERAND BIO’S PRIMARY HUMAN LUNG CELLS

- Cells (0.5 or 1 x 10⁶ cells/vial) are supplied cryopreserved at passage 1, with guaranteed attachment and growth in 2D*
- Donor clinical data (including drug history) is available
- All donor material is consented and provided under IRB approval
- CF cells are homozygous for the ΔF508CFTR mutation
- IPF cells are supplied along with lung function data
- Expert advice and support is readily available
- Please refer to each specific data sheet for further information

* in the cell culture media specified

As an additional service, we are also able to provide a range of conventional and custom 2D and 3D human cell based assays, including air-liquid interface culture (ALI) of HuBECs.

Please visit our website for further details or contact your Business Development Director.

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ABOUT ASTERAND BIOSCIENCE®
Asterand Bio is the leading global provider of high-quality, well-characterized human tissue and human tissue-based research solutions to drug discovery scientists. Our mission is to provide human-based solutions to accelerate the identification and validation of drug targets and enhance the selection of drug candidates with an increased likelihood of clinical success.

ETHICAL AND REGULATORY CONTROL
All human tissue samples are obtained with informed donor consent and are de-identified prior to banking and distribution. Asterand Bio acts in strict compliance with the US Health Insurance Portability and Accountability Act (HIPAA) and the United Kingdom Human Tissue Authority (HTA) and is accredited by the College of American Pathologists (CAP) and ISO 9001. Asterand Bio has GLP accreditation according to the requirements of Good Laboratory Practice (GLP)–Directive of the European Commission 2004/9/EEC, and a Good Clinical Laboratory Practice (GCLP) laboratory for clinical assay services.

RESEARCH SERVICES
- Immunohistochemistry
- ISH & FISH
- TMA, FDA & Custom
- Digital Pathology
- Histopathology
- qRT-PCR
- LCM
- siRNA Knockdown

BIOMATERIALS AVAILABLE
- Fresh, Frozen & FFPE
- Normal & Diseased Tissue
- OCT Embedded
- Serum, Plasma & Blood
- Synovial Fluid
- RNA, DNA & Protein
- TMA, FFPE & Frozen
- Primary Cells
- Proprietary Cell Lines

THERAPEUTIC AREAS
- Oncology
- Cardiovascular
- Metabolic
- CNS
- Respiratory
- Inflammation
- Genitourinary
- Fibrosis

XpressBANK™ BIOREPOSITORY
The Asterand Bio XpressBANK™ Biorepository is an invaluable source of high-quality, well-characterized and validated tissue, biofluids, cell lines and molecular derivatives, all intended for research use in the drug and diagnostic development process. Our extensive repository contains over 200,000 human tissues and biofluids. This bank includes material that is prospectively obtained in a variety of formats including fresh frozen and FFPE, supported by comprehensive clinical data.

BioSPOKE™ CUSTOM BIOSPECIMEN PROCUREMENT
Through our BioSPOKE™ service, human tissues and clinical data are custom collected to meet unique research requirements within a wide range of disease categories or as normal controls. Samples are provided fresh or in multiple preserved formats. Specialized processing may be tailored to each research request. This service allows Asterand Bio to deliver human tissues, biofluids and accompanying clinical information to our clients that are collected in a manner which is most compatible with their experimental design.

PhaseZERO® RESEARCH SERVICES
For over 20 years, Asterand Bio’s trusted scientists have worked collaboratively with clients to facilitate the efficient selection of drug targets and candidate therapeutics with the highest likelihood for clinical success by providing a variety of preclinical drug discovery services. From target and biomarker validation, characterization of therapeutic candidates for potency, effect and safety to supporting clinical diagnostic assay development and testing, Asterand Bio provides clients with high-quality experimental design, execution, data interpretation and reporting. Each project is managed by a dedicated scientific project manager and customized to meet each client’s specific needs.

Please contact our Business Development Directors in the following regions to discuss your requirements:

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