Human Primary Colon Cancer-Associated Fibroblasts
A primary cell isolate with application in cell-based screening and life science research

PRODUCT OVERVIEW
The primary cell isolate was prepared from human tissue obtained with full ethical permission. Tissue was dissected and treated with collagenase and chelation. A colon cancer associated fibroblast population (CAF) was isolated using FSP-1 selection and the resulting cells were propagated in customized colon fibroblast medium. Cells were banked and cryopreserved under liquid nitrogen. The cell population was analysed by fluorescence-activated flow cytometry.

TISSUE FEATURES
• Male donor, 64 years
• Colon tumor

CELL CHARACTERISTICS
Batch number: 12-0427C
Mycoplasma test: Negative (by RT-PCR mycoplasma assay)
Virus negative tests: HIV1, HIV2, HBV, HCV
Other tests: Fungus, yeast (negative)
Passage: P+2
Population doubling: 2-3 days
Appearance: Large irregular cells
Culture medium: AvantiCell medium (CF-HNM-01)
Seeding density: 2,000-3,000 cells/cm²
Recovery from frozen: 81% viability

FLOW CYTOMETRY CELL ANALYSIS

<table>
<thead>
<tr>
<th>Cell Marker</th>
<th>Target Description</th>
<th>Population (Positive)*</th>
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<tbody>
<tr>
<td>αSMA</td>
<td>Myofibroblast CAF associated marker</td>
<td>84%</td>
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<tr>
<td>FSP-1</td>
<td>Fibroblast associated marker</td>
<td>21%</td>
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*Percentage of cells with fluorescence greater than the isotype control background

USES AND RESTRICTIONS
• Further expansion potential for up to 3 population doublings
• For research use ONLY — not suitable for in vitro diagnostic use or human or animal treatment
• Potential biohazard — handle with care