

Primary Cell Culture 혁신

The AVATAR™ Cell Control System

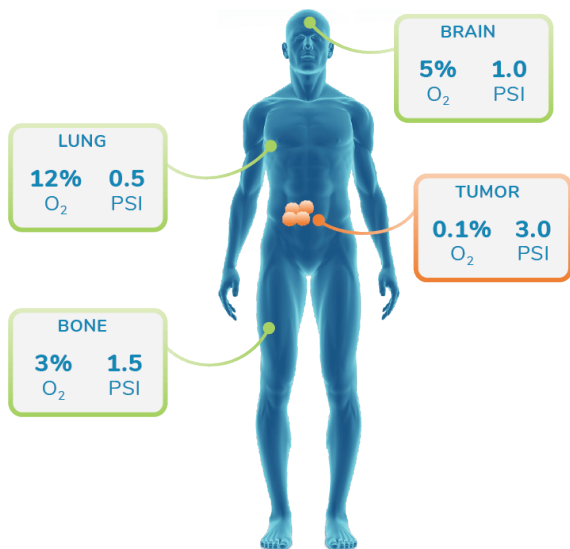
in vivo와 가장 유사한 환경!

O₂와 압력(psi)을 손쉽게 조작!

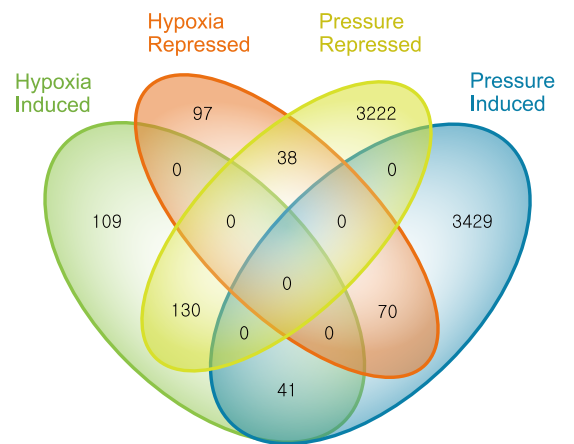
획기적인 Cell Culture결과!



- High Transfection Efficiency
- Rapid cell Expansion
- Easy Cell Control: Differentiation / Stemness
- Improve your primary tumor culture



인체 내 각 기관마다 압력 및 산소 조건이 다릅니다. 일반 incubator와 비교할 수 없는 culture 환경을 제공합니다.



Venn diagram showing the number of induced and repressed transcripts in each RNA-seq transcriptome produced in response to iPSCs exposed to hypoxia, pressure, or both.

압력 및 산소조건에 의해 달라지는 gene expression 양상을 확인하세요. Cell에 맞는 Culture 환경으로 올바른 data를 얻으실 수 있습니다.



Specifications

WEIGHT: 63 lbs (28.6 kg)
 SIZE (WxDxH): 13.5" x 13.1" x 12" (34.3 x 33.3 x 30.5 cm)
 CHAMBER CAPACITY: 224 cu in. / 3.7L
 POWER: 100-240 V AC, 50/60Hz, 2Amps
 GAS REQUIREMENTS: In-line 25 psi N₂, 25psi CO₂



Cell Culture 혁신

Stem Cells / Immune Cells / Neurons / Fibroblasts / Cardiomyocytes / Tumor Cells / Organoids

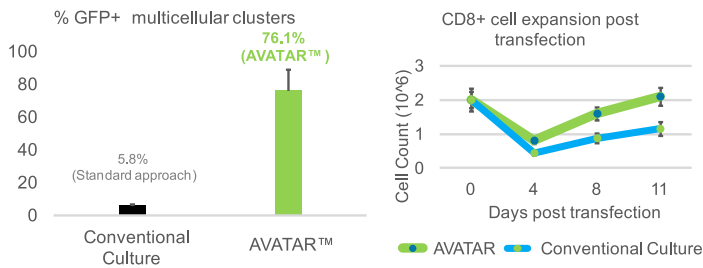
iPSCs: Stemness Marker 발현 증가(SOX2)

MAINTAINING PLURIPOTENCY IN HUMAN STEM CELLS



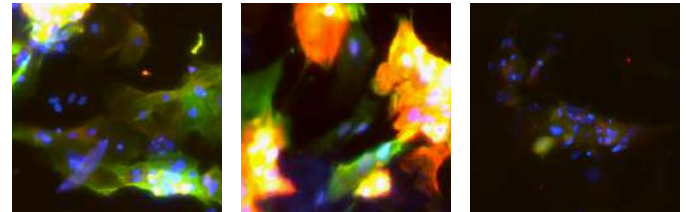
Standard CO₂ Incubator Hypoxia Only Hypoxia + Pressure

High Transfection efficiency



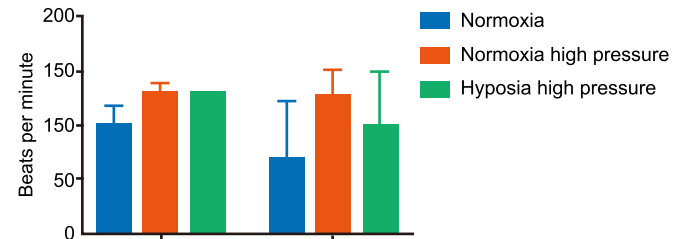
CARDIOMYOCYTES: Mature Cardiac Marker 발현 증가(Cardiac Troponin)

Targeting Mature Cardiac Protein Profile

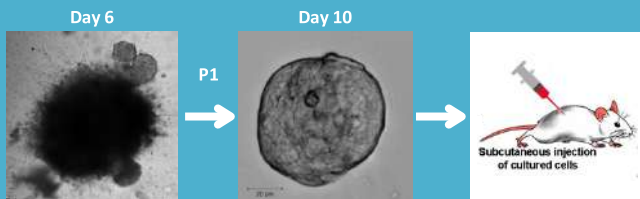


Standard Incubator normoxia - 2 PSI hypoxia - 2 PSI

Influence of Cardiomyocyte Maturation



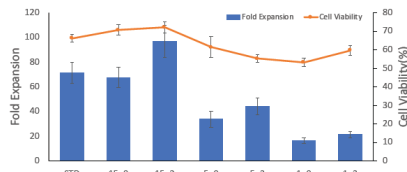
Improve organoid generation



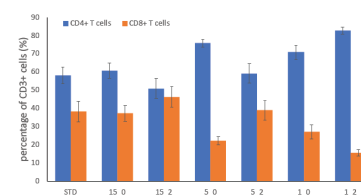
Robust growth and efficient passing of prostate tumor organoids enable PDX model generation in as little as 10 days.

Cell Culture Control

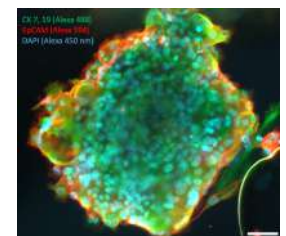
• Expansion



• CD8:CD4 ratio



Expand Difficult cells



Pancreatic ductal adenocarcinoma

NK-mediated tumor cell killing assay

