

CSI236Ra01

Primary Rat Endothelial Progenitor Cells (EPC)

Organism Species: Rattus norvegicus (Rat)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Aug, 2022)

## [ DESCRIPTION ]

Cell Type: Endothelial Progenitor Cell

Synonyms: EPC

Species: Rattus norvegicus (Rat)

Tissue Source: Femur and tibia tissue

Size: >5×10<sup>5</sup>cell/vial

## [PROPERTIES]

Cell activity: >85% (Viability by Trypan Blue Exclusion).

Formulation: Frozen 1 mL or T25 flask.

Biosafety: Negative for HIV-1, HBV, HCV, mycoplasma, bacteria, yeast and fungi.

Applications: For research use only. It is not approved for human or animal use, or for application in

clinical diagnostic procedures. **Growth Properties:** Adherent

## [CONTENTS]

Form & Buffer: Supplied as solution form in frozen stock solution, containing 90% FBS+10% DMSO.

# [USAGE]

Upon receiving the cells in a T-25 flask at room temperature, immediately transfer the cells to 37°C, 5% incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

#### **Culture conditions:**

DMEM/F12+5%FBS+1% Endothelial Progenitor Cell Growth Supplement+1%Penicillin-Streptomycin

Solution or EGM-2-MV BulletKit

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

### Cell recovery:

After receiving the cells, shake at 37°C in a water bath until completely dissolved, transfer to a 15 ml centrifuge tube, add 3-5 times complete culture solution, 1000 rpm for 5 min, discard the supernatant, and place in a T25 flask for culture.

## Cell passage:

1. Cell passage when cell growth at 85-95%.



- 2. Discard the medium and wash with PBS 1-2 times.
- 3. Add 1 ml of Trypsin at 37°C, observe the cell under the microscope. If the cells are retracted and rounded, pat the culture flask to let the cells fall off. Stop digestion by adding 2 ml of complete medium containing 10% serum. Make it a single cell suspension.
- 4. Add the fresh medium to resuspend the cells. Unless otherwise stated, the recommended ratio of primary cells is 1/2-1/3.

## [Shipping]

Dry ice.

## [STORAGE]

Upon receiving, directly and immediately transfer the cells from dry ice to liquid nitrogen and keep the cells in liquid nitrogen until they are needed for experiments.

## [ IMPORTANT NOTE ]

The cell is for research use only, and we will not be responsible for any issue if the cell was used in clinical diagnostic or any other procedures.

## [Figure]

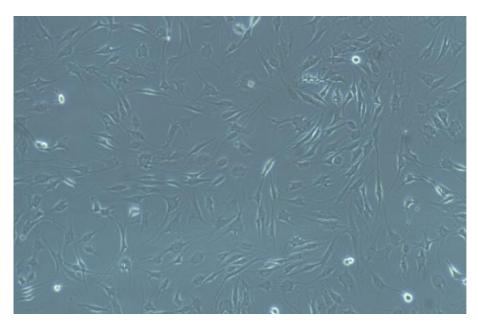


Figure 1

Figure 1 Morphology of Rat EPCs (Optical microscope,×100)

# Cloud-Clone Corp.

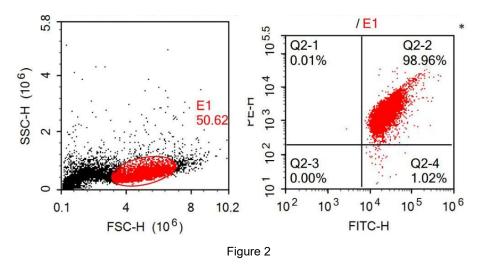


Figure 2 The analysis of cell surface phenotype indicated that Rat EPCs population were positive for CD34 and VEGFR2.