

CSI178Ra01

Primary Rat Retinal Ganglion Cells (RGC)

Organism Species: Rattus norvegicus (Rat)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

2nd Edition (Revised in Jan 2025)

[DESCRIPTION][DESCRIPTION]

Cell Type: Ganglion cell

Synonyms: RGC

Strain: Sprague Dawley Rat

Age: 1-3 days

Tissue Source: Retina **Size**: >5×10⁵ cell/vial

[PROPERTIES]

Cell activity: >85% (Viability by Trypan Blue Exclusion). **Formulation:** Frozen 1 mL (90%FBS+10% DMSO)

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% CO₂ incubator; the cells in vials, directly and immediately transfer the cells from dry ice to liquid nitrogen.

Culture conditions:

RGCs medium: Neurobasal-A medium+B-27 Supplement (50X)+1%Penicillin-Streptomycin Solution.

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. Further culture of Rat RGCs are guaranteed under the conditions we provide; however, Rat RGCs

Cloud-Clone Corp.

are not recommended for expansion or long-term cultures because cells do not proliferate in culture.

2. Experiments should be well organized before thawing RGC . It is recommended that RGC are used for experiments as quickly as possible after thawing the cells.

[Shipping]

Dry ice.

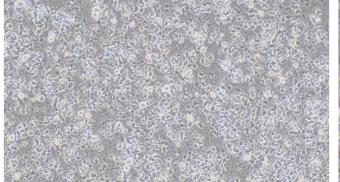
[STORAGE]

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]

- 1. Primary Rat Retinal Ganglion Cells (RGC) are not recommended for expanding or long-term cultures since the cells do not proliferate in culture.
- **2.** It is recommended that culture bottles be coated with Collagen type I from rat tail, and the concentration of rat tail collagen coating is 0.1mg/ml.
- 3. 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]



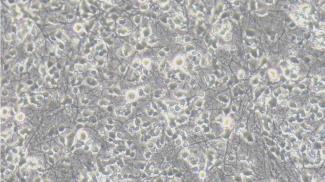
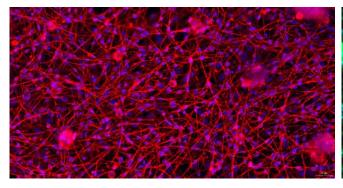


Figure 1 Figure 2

Figure 1 Morphology of Rat Retinal Ganglion Cells (Optical microscope,×100) Figure 2 Morphology of Rat Retinal Ganglion Cells (Optical microscope,×100)



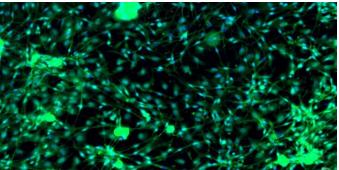


Figure 3 Figure

Figure 3 Immunofluorescence identification of Tubulin Beta specific antibody (×200)

Figure 4 Immunofluorescence identification of MAP2 specific antibody (×200)