



CSI178Rb01

Primary Rabbit Retinal Ganglion Cells (RGC)

Organism Species: *Oryctolagus cuniculus* (Rabbit)

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

2nd Edition (Revised in Aug, 2026)

[DESCRIPTION]

Cell Type: Ganglion cells

Synonyms: RGC

Strain: New Zealand white rabbit

Age: 1-3 Days

Tissue Source: Retina

Disease: Normal

Size: $>5 \times 10^5$ cells/mL

Growth Properties: Adherent

Morphology: Oval

[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.

[CONTENTS]

Form & Buffer: Supplied as solution form in frozen stock solution (Protein-free, Chemical Defined Cell Cryopreservation Medium). ***RGC are cryopreserved at P0 and delivered frozen.***

[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:

Coating conditions: Poly-D-lysine (0.1mg/mL, 2ml/T25 Flask)

Special culture medium for Ganglion Cells:

Neurobasal-A medium+ B-27 Supplement (50X)+ 1% Penicillin-Streptomycin Solution+2mM L-Glutamine.

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

Half-Medium Renewal: Every 2 to 3 days

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 culture:

Further culture of Rabbit RGCs are guaranteed under the conditions we provide; however, RGCs are not recommended for expansion or long-term cultures because cells do not proliferate in culture.

[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. The culture cycle of Primary Rabbit Retinal Ganglion Cells (RGC) is limited *in vitro*. It is recommended to use the specialized growth medium provided by Cloud-Clone Corp. and follow the correct operational procedures to ensure optimal culture conditions for these cells.
2. It is recommended that culture bottles be coated with Poly-D-lysine, and the concentration of Poly-D-lysine is 0.1mg/mL, using 2 ml per T25 flask.
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]

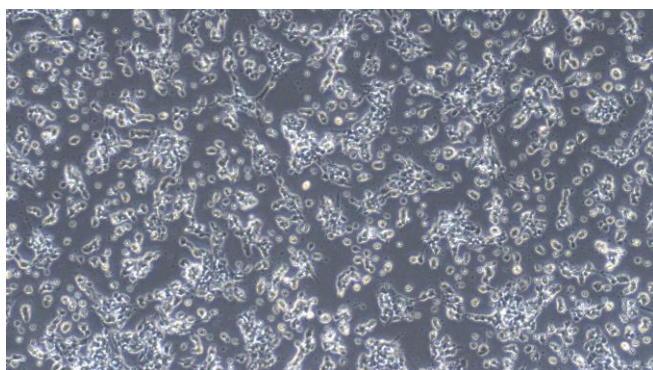


Figure 1

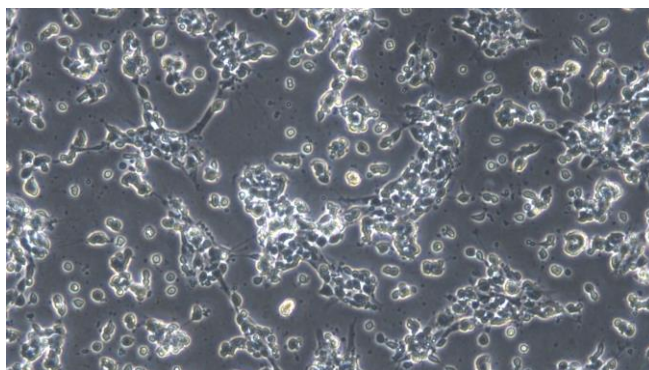


Figure 2

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

Figure 2 Morphology of Rabbit Retinal Ganglion Cells (Optical microscope,×200)

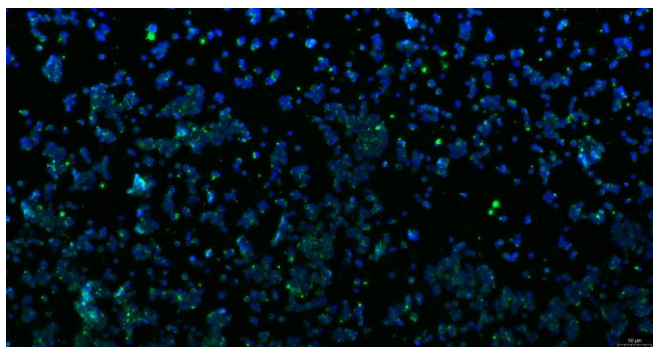


Figure3

Figure 3 Immunofluorescence identification of CD90 specific antibody (×200)

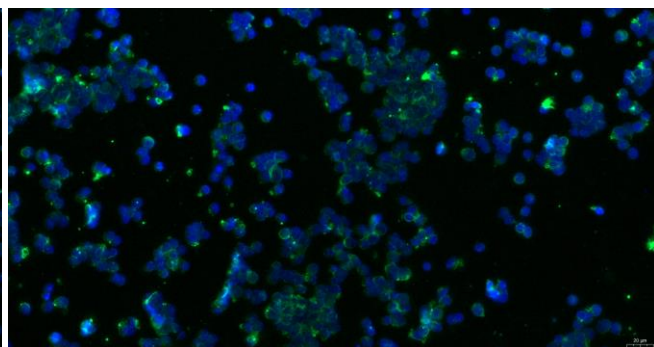


Figure4

Figure 4 Immunofluorescence identification of CD90 specific antibody (×400)