



CSI049Ra01

Primary Rat Microglia Cells (MC)

Organism Species: *Rattus norvegicus* (Rat)

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

2nd Edition (Revised in Jun, 2025)

[DESCRIPTION]

Cell Type: Microglia Cell

Synonyms: MC

Strain: Sprague Dawley Rat

Age: 1-3 Days

Tissue Source: Cerebral cortex

Disease: Normal

Size: $>5 \times 10^5$ 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% Microglia Cell Growth Supplement+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.

Maintenance Culture:

Change the medium to fresh supplemented medium the next morning after establishing a culture from cryopreserved cells. Change the medium every two to three days thereafter.

[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.

[IMPORTANTNOTE]

1. It is not recommended that Rat Microglia Cell be subcultured beyond their initial plating.
2. 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]

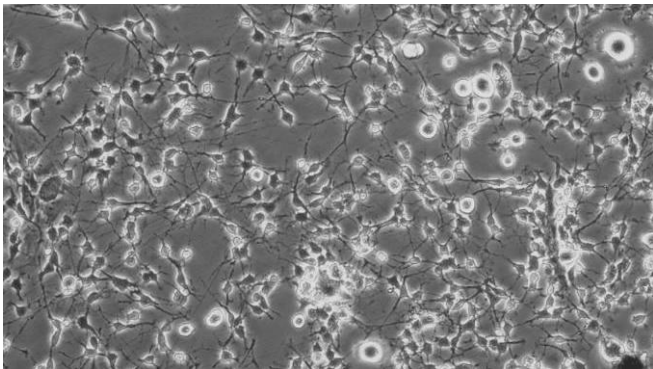


Figure 1

Figure 1 Morphology of Resting Rat microglia Cells (×100)

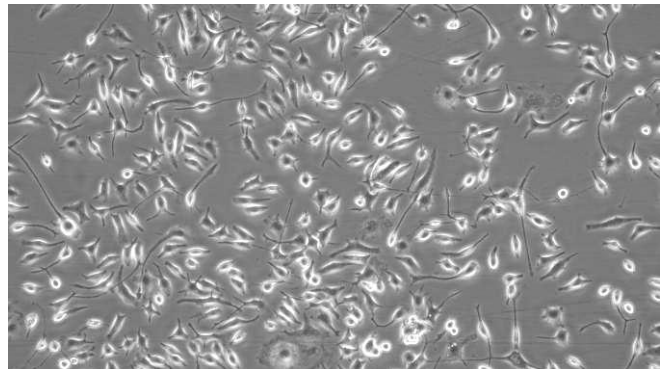


Figure 2

Figure 2 Morphology of activated Rat microglia Cells (×100)

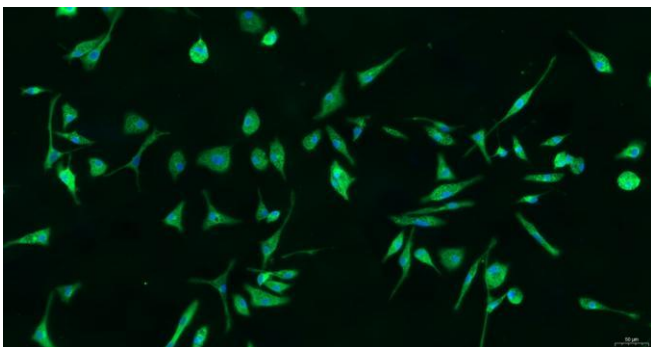


Figure 3

Figure 3 Immunofluorescence identification of CD11b specific antibody (×200)

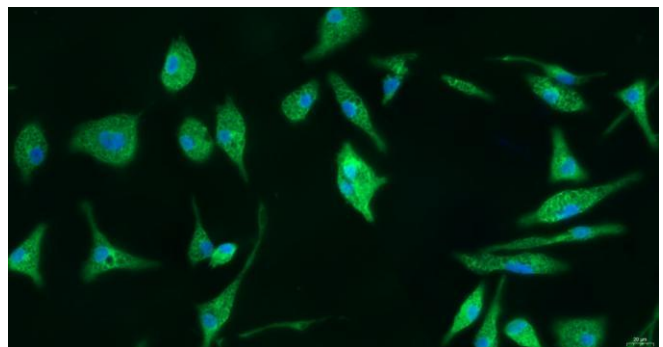


Figure 4

Figure 4 Immunofluorescence identification of CD11b specific antibody (×400)

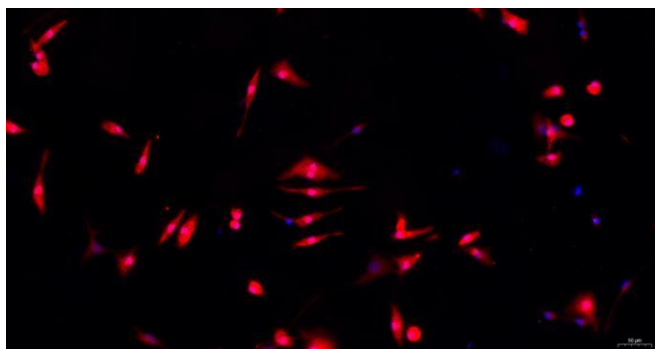


Figure 5

Figure 5 Immunofluorescence identification of iba1 specific antibody (×200)

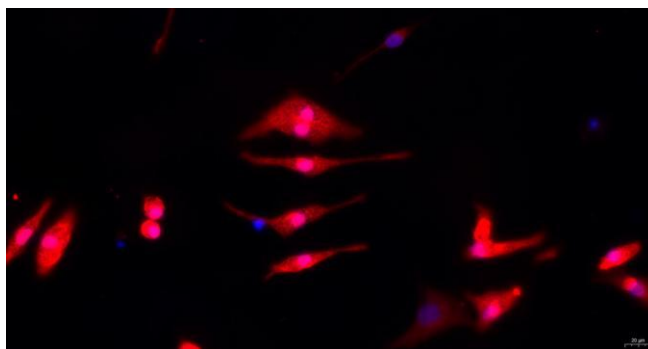


Figure 6

Figure 6 Immunofluorescence identification of iba1 specific antibody (×400)