



CSI238Ca01

Primary Canine Trigeminal Ganglion Neuron Cells (TGN)

Organism Species: *Canis familiaris*; Canine (Dog)

Instruction manual

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1st Edition (Revised in Feb, 2025)

[DESCRIPTION]

Cell Type: Neuron Cell

Synonyms: TGN

Strain: Beagle

Age: 1-2 days

Tissue Source: Trigeminal ganglion

Disease: Normal

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

Growth properties: Adherent

Morphology: Polygonal

[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). ***TGN 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% CO₂ 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 neuronal cell:

Neurobasal-A Medium+B-27 Supplement (50X)+1%Penicillin-Streptomycin Solution

Temperature: 37°C

Condition: 95% air, 5% carbon dioxide

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 passage:

Further culture of Primary Canine Trigeminal Ganglion Neuron Cells is guaranteed under the conditions we provide; However, Primary Canine Trigeminal Ganglion Neuron Cells is 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 Canine Trigeminal Ganglion Neuron Cells (TGN) 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.

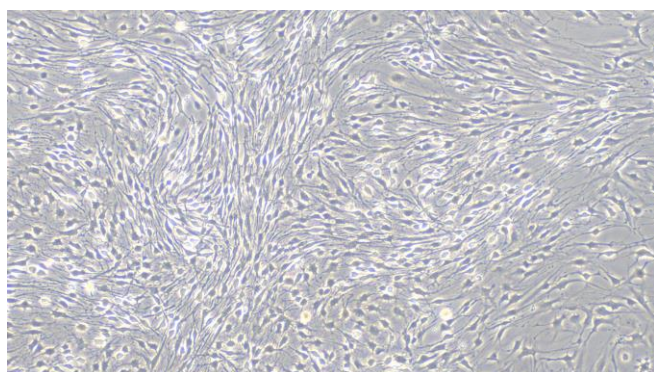
[Figure]

Figure 1

Figure 1 Morphology of Primary Canine Trigeminal Ganglion Neuron Cells (Optical microscope, ×100)

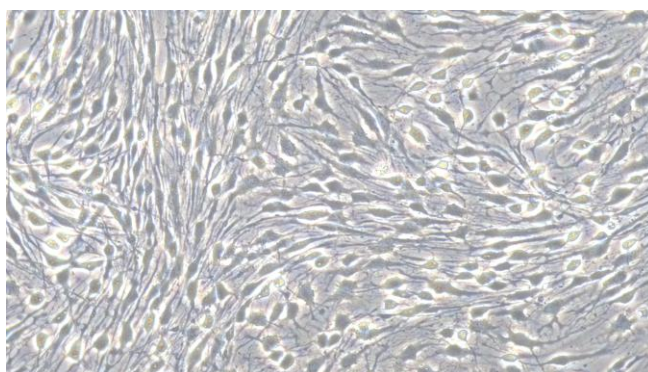


Figure 2

Figure 2 Morphology of Primary Canine Trigeminal Ganglion Neuron Cells (Optical microscope, ×200)

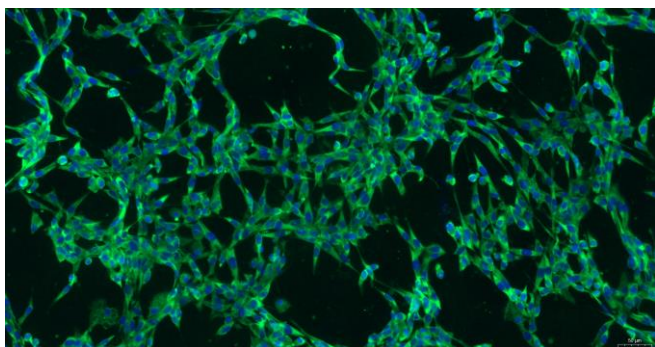


Figure 3

Figure 3 Immunofluorescence identification of MAP2 specific antibody (×200)

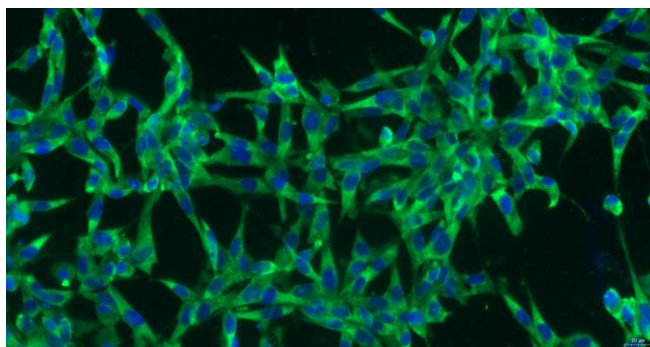


Figure 4

Figure 4 Immunofluorescence identification of MAP2 specific antibody (×400)

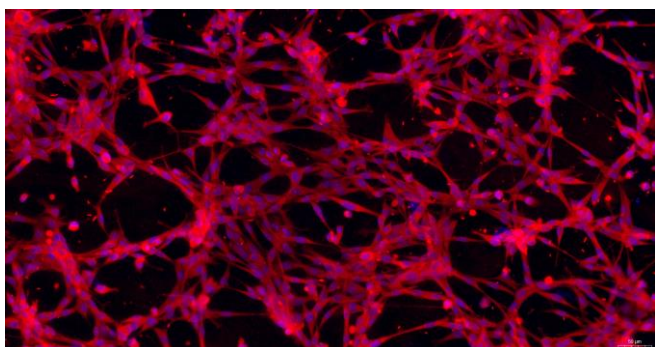


Figure 5

Figure 5 Immunofluorescence identification of Peripherin (PRPH) specific antibody (×200)

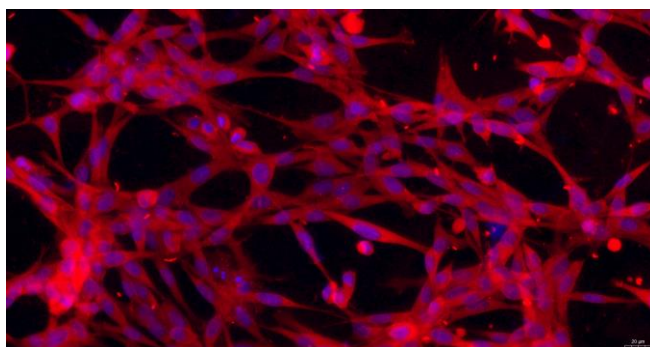


Figure 6

Figure 6 Immunofluorescence identification of Peripherin (PRPH) specific antibody (×400)