CSI264Ca01

Primary Canine Cerebral Cortex Neuron Cells (CCNC)

Organism Species: Canis familiaris; Canine (Dog)

Instruction manual

FOR RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

2nd Edition (Revised in Jun, 2026)

[DESCRIPTION]

Cell Type: Neuron cell
Synonyms: CCNC
Strain: Beagle
Age: 1-3 days
Tissue Source: Cerebral cortex
Disease: Normal
Size: >5×10^5 cells/vial
Growth properties: Adherent
Morphology: Neuron-like

[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, containing 90% FBS+10% DMSO.
CCNC 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)
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

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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 **pre-coated** T25 flask for culture.

[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.

[Shipping]

Dry ice.

[IMPORTANTNOTE]

1. The culture cycle of Primary Canine Cerebral Cortex Neuron Cells (CCNC) 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]

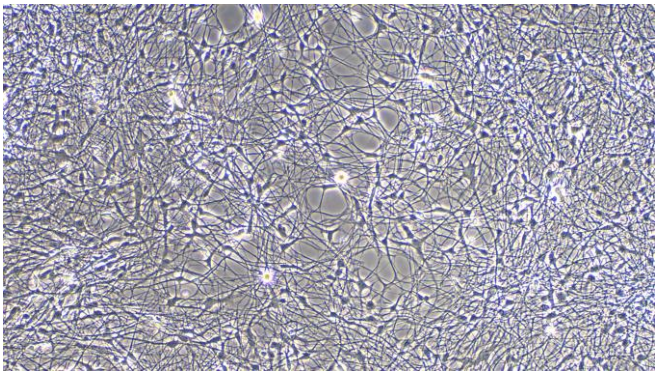

Figure 1

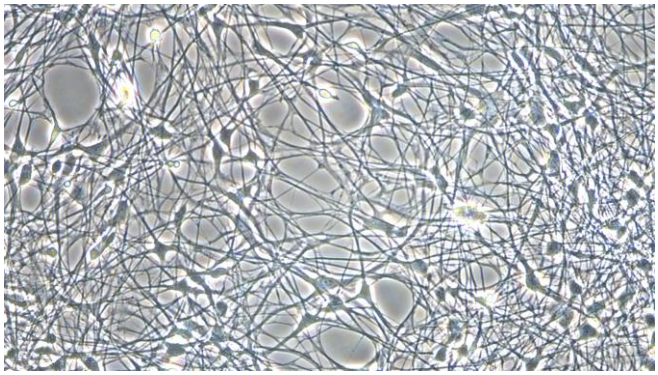

Figure 2

Figure 1 Morphology of Canine Cerebral Cortex Neuron Cells (Optical microscope,×100)

Figure 2 Morphology of Canine Cerebral Cortex Neuron Cells (Optical microscope,×200)

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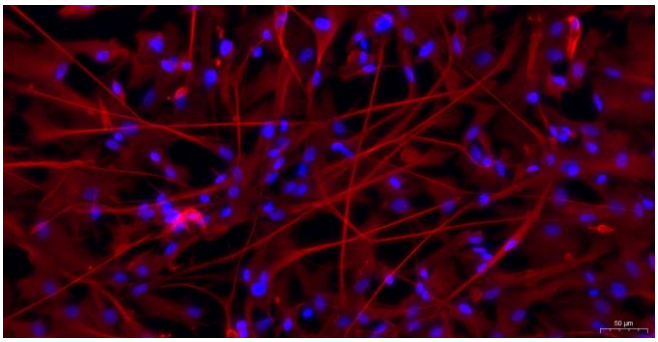

Figure 3

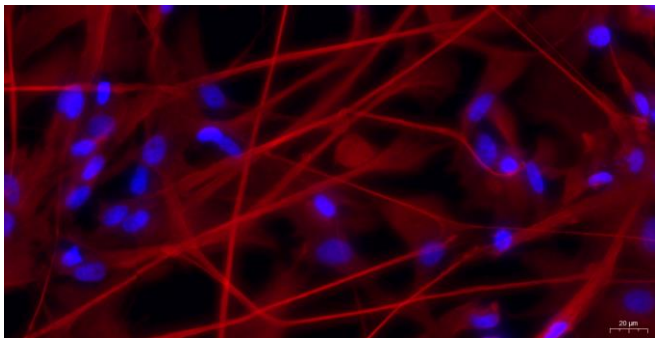

Figure 4

Figure 3 Immunofluorescence identification of β-TubulinIII specific antibody (×200)

Figure 4 Immunofluorescence identification of β-TubulinIII specific antibody (×400)

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