

Product sheet

MC38 | 305223

MC38

Description
MC38 is a murine B cell hybridoma cell line that secretes monoclonal antibodies against the human protein claudin-1. The cell line was derived from a fusion of a murine myeloma cell line (C57BL/6) and a murine B cell line (MC38). The cell line is maintained in culture and produces monoclonal antibodies against claudin-1. The antibodies are used for various applications, including immunoprecipitation, Western blotting, and immunofluorescence.

Organism mouse

Tissue B cell

Disease B cell leukemia

Synonyms MC-38, MCA-38, MCA 38, MCA38, MC38, MC38-38, MC38-38, MC38-38; C38

MC38

Breed/Subspecies C57BL/6

Gender female

Growth properties adherent

MC38

Citation MC38 (Cytion 305223)

Biosafety level 1

NCBI_TaxID 10090

CellSaurusAccession CVCL_B288

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Culture Medium DMEM, w: 4.5 g/L $\text{CaCl}_2 \cdot 2\text{H}_2\text{O}$, w: 4 mM L- Asn , w: 3.7 g/L NaHCO_3 , w: 1.0 mM $\text{Na}_2\text{S}_2\text{O}_8$ (Cytion 820300a)

Supplements 10% FBS, 10 mM HEPES, NEAA

Dissociation Reagent Trypsin

Subculturing Cells are cultured in DMEM supplemented with 10% FBS, 10 mM HEPES, NEAA, and 1.0 mM $\text{Na}_2\text{S}_2\text{O}_8$ (Cytion 820300a) in T25 flasks. For subculturing, cells are trypsinized and seeded into new flasks at a density of 1-3 x 10⁵ cells per flask.

Freeze medium DMEM supplemented with 10% FBS, 10 mM HEPES, NEAA, and 1.0 mM $\text{Na}_2\text{S}_2\text{O}_8$ (Cytion 820300a) + 10% DMSO

- Thawing and Culturing Cells**
1. Thaw the cells in a 37°C water bath.
 2. Add 10 ml of DMEM supplemented with 10% FBS, 10 mM HEPES, NEAA, and 1.0 mM $\text{Na}_2\text{S}_2\text{O}_8$ (Cytion 820300a) to the cells.
 3. Seed the cells into a T25 flask.
 4. Incubate the cells in a 37°C incubator with 5% CO_2 .
 5. Once cells reach 70-80% confluency, trypsinize and seed into new flasks.
 6. For freezing, seed cells into a 300 x g flask at a density of 3 x 10⁵ cells per flask.
 7. Add 10 ml of DMEM supplemented with 10% FBS, 10 mM HEPES, NEAA, and 1.0 mM $\text{Na}_2\text{S}_2\text{O}_8$ (Cytion 820300a) + 10% DMSO.
 8. Incubate the cells in a 37°C incubator with 5% CO_2 .

Incubation Atmosphere 37°C, 5% CO_2

Flask Coating None

Freezing Procedure Seed cells into a 300 x g flask at a density of 3 x 10⁵ cells per flask. Add 10 ml of DMEM supplemented with 10% FBS, 10 mM HEPES, NEAA, and 1.0 mM $\text{Na}_2\text{S}_2\text{O}_8$ (Cytion 820300a) + 10% DMSO. Incubate the cells in a 37°C incubator with 5% CO_2 .

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Shipping Conditions

Store at -78°C

Storage Conditions

Store at -150 to 196°C

HLA

Sterility

PCR
HLA