Certificate of Analysis

Product Cat. No.: M00636

Host Cell: CHO-K1

Target gene: Mouse CD38

Shipping Condition: Dry ice

Lot Number: B30151704

860 Centennial Ave., Piscataway, NJ 08854, USA
Toll-Free: 1-877-436-7274 Tel: 1-732-885-9188 Fax: 1-732-210-0262 Email: order@genscript.com Web: www.genscript.com

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Stable Cell Line Information

Recommended Cell Culture Medium: F-12K (Gibco, Cat. #21127-022), FBS (Gibco, Cat. #10099-141), and 8μg/ml puromycin (Gibco, Cat. #A1113803)

Freeze Medium: 95% complete growth medium, 5% (V/V) DMSO

Description: One stable subline using CHO-K1 as the host is approved to overexpress Mouse CD38.

QC: FACS, QPCR

Mycoplasma: Negative*

***** Our PCR mycoplasma test covers 160 of the most common species of mycoplasma.

Notice to Purchaser:

GenScript stable cell line products are to be used for research purposes only, not intended for use in humans. GenScript products may not be transferred to third parties or used to manufacture commercial products without written approval. Use of this product is also subject to compliance with the licensing requirements.

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QC Data

1. Validation of the cell by Flow Cytometry

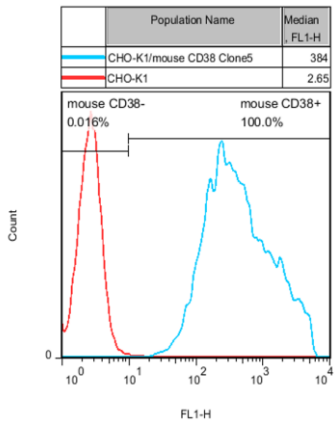
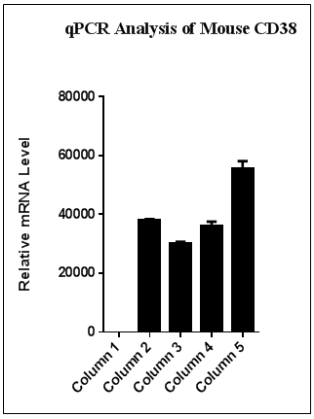


Figure 1. FACS analysis of mouse CD38 on CHO-K1/mouse CD38 clone5



column 1: CHO-K1 control

column 4: CHO-K1/mouse CD38 clone5

Figure 2. QPCR analysis of mouse CD38 in CHO-K1/mouse CD38 clone5

Instruction for maintaining stable cell line

Cell recovery

The cells were maintained in F-12K, 10% FBS, and 8 μg/ml puromycin. The S.O.P for cell recovery is briefly introduced here:

1) Preheat a water bath to 37°C.
2) Remove the cryovial from the liquid nitrogen tank and thaw by gentle agitation in a 37°C water bath until ice crystals are melted, usually within 2-3 minutes.
3) Remove the vial from the water bath and decontaminate by spraying with 70% ethanol.
4) Unscrew the vial and transfer the cells to a 15 ml sterile conical centrifuge tube containing 9 ml complete growth medium.
5) After centrifugation at 125 g for 10 minutes, discard the supernatant and resuspend the cells in 2 ml of complete growth medium. Pipette gently to loosen the pellet and break apart clumps.
6) Transfer the cell suspension to the culture vessel with antibiotic free medium and mix thoroughly. Incubate cultures at 37°C, 5% CO_2.
7) Replace with fresh culture medium the next day (with appropriate concentration of antibiotic).

Cell Maintenance and Subculturing

Volumes listed below are for 10 cm dish, proportionally reduce or increase the amount of dissociation medium for culture vessels of other sizes.

1) Balance the complete growth medium to 37°C in a water bath.
2) Remove and discard culture medium of the flask.
3) Briefly rinse the cell layer with Ca^{2+}/Mg^{2+} free DPBS to remove all traces of serum.
4) Add 1.0 to 2.0 ml of Trypsin-EDTA solution to flask and observe cells under an inverted microscope until cell layer is dispersed (usually within 1 to 3 minutes).
   Note: To avoid clumping, do not agitate the cells by hitting or shaking the flask while waiting for the cells to detach. Cells that are difficult to detach may be placed at 37°C to facilitate dispersal.
5) Add 8.0 ml of complete growth medium and aspirate cells by gently pipetting.
6) Centrifuge at 125 g for 10 minutes, discard the supernatant and resuspend the cells in 5 ml complete growth medium.

7) Add appropriate aliquots of the cell suspension to new culture vessels. Incubate cultures at 37°C.

Subcultivation Ratio: 1:3 to 1:6

Medium Renewal: 2-3 times per week

Cell Cryopreservation

1) Prepare a freeze medium consisting of complete growth medium and 5% DMSO.
2) Harvest cells by gentle centrifugation at 125 g for 10 minutes and resuspend them in the freeze medium at a concentration of 1 x 10^6 to 5 x 10^6 viable cells/ml. Continue to culture the cells of rest until the viability of the recovered cells is confirmed.
3) Label the cryovials with the name of the cell line, then add 1 ml of the cell suspension to each of the vials and seal.
4) Place the vials into a pre-cooled (4°C) controlled-rate freeze chamber and place the chamber in a -80°C freezer for at least 24 hours.
5) Quickly transfer the vials to a liquid nitrogen tank.
6) After 24 hours' preservation in liquid nitrogen, take one vial out and culture the cells to check the cell viability.

Packing List of M00636

Cell lines (Shipping Condition: -80°C Dry Ice, Store at -196°C)

Name: CHO-K1/mouse CD38
Quantity: 1x10^6 cells/vial
Lot No.: B30151704
Number of vial: 2 vials
Store at: -196°C

Certified by: **Date:** ***09/19/2017***

Appendix

1. Target gene information

Mouse CD38, NM_007646.5

2. Antibodies used for FACS:

Primary antibody: Alexa Fluor 488 anti-mouse CD38 (Biolegend Cat#102714)