

14-528ACL: C3aR1/NIH 3T3 Stable Cell Line

Application : Functional Assay

Description

C3aR1/NIH 3T3 Stable Cell Line is a stably transfected NIH 3T3 cell line which expresses human Complement component 3a anaphylatoxin chemotactic receptor 1 (C3aR1).

Sequence data: hC3aR1 (accession number NP_001313404)

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MASFSAETNSTDLLSQPWNEPPVILSMVLSLTFLGLPGNGLVWVAGLKMQRVTNTIWFHLH  
LTLADLLCCLSLPFLSLAHLALQGQWPYGRFLCKLIPSIIVLNMFASVFLTAISLDRCLVVK  
PIWCQNHRNVGMACSICGCIWVAFVMCIPVFVYREIFTTDNHNRCGYKFGLSLSDYPDFYG  
DPLENRSLENIVQPPGEMNDRLDPSSFQTDHPWTVPTVFQPQTFQRPSADSLPRGSARLTSQ  
NLYSNVFKPADVVSPKIPSGFPIEDHETSPLDNSDAFLSTHLKLFPSASSNSFYESELPOGFQ  
DYVNLGQFTDDDQVPTPLVAITITRLVVGFLPSVIMIACYSFIVFRMQRGRFAKSQSKTRV  
AVVVAVFLVCWTPYHIFGVLSLLTDPETPLGKTLMSWDHVCIALASANSFCNPFLYALLGKD  
FRKKARQSIQGILEAAFSEELTRSTHCPSNNVISERNSTTV
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Product Info

Amount : 1 Vial
Content : Each vial contains $2 \sim 3 \times 10^6$ cells in 1 ml of 90% FBS + 10% DMSO
Storage condition : Immediately upon receipt, store in liquid nitrogen.

Application Note

Application:

- Screen for antibodies of human C3aR1 through Flow Cytometry.

Culture conditions:

Cells should be grown at 37°C with 5% CO₂ using DMEM medium (w/ L-Glutamine, 4.5g/L Glucose and Sodium Pyruvate) supplemented with 10% heat-inactivated FBS and 1% Pen/Strep, plus 10 µg/ml of Blasticidin.

It is recommended to quickly thaw the frozen cells upon receipt or from liquid nitrogen in a 37°C water-bath, transfer to a tube containing 10 ml of growth medium without Blasticidin, spin down cells, resuspend cells in pre-warmed growth medium without Blasticidin, transfer resuspended cells to T25 flask and culture in 37°C-CO₂ incubator.

Leave the T25 flask in the incubator for 1~2 days without disturbing or changing the medium until cells completely recover viability and become adherent. Once cells are over 90% adherent, remove growth medium and passage the cells through trypsinization and centrifugation. At first passage, switch to growth medium containing Blasticidin. Cells should be split before they reach complete confluence. *Note: NIH 3T3 cells should be split before they reach over 90% confluence; otherwise, they become self-lifted and aggregate irreversibly. Precoating the cell plates with 0.1% gelatin may prevent NIH 3T3 cells from self-lifting. During cell trypsinization, cells covered enough with trypsin-EDTA*

solution should be stayed at 37°C for 10 min without agitation.

To passage the cells, detach cells from culture vessel with Trypsin/EDTA, add complete growth medium and transfer to a tube, spin down cells, resuspend cells and seed appropriate aliquots of cells suspension into new culture vessels. Subcultivation ration = 1:10 to 1:20 weekly. To achieve satisfactory results, cells should not be passaged over 16 times.

LIMITED USE RESTRICTIONS:

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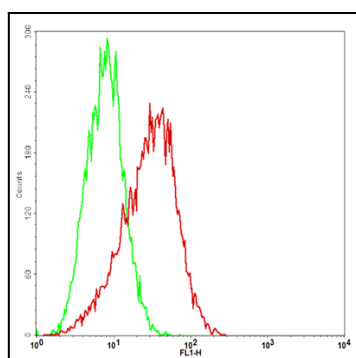


Fig-1: Detection of human C3aR1 in the C3aR1/NIH 3T3 stable cell line . NIH 3T3 cells (Green); C3aR1/NIH 3T3 cells (Red).