

14-529ACL: CD28 Stable Cell Line

Application : Functional Assay

Description

CD28 Stable Cell Line is a stably transfected CHO-K1 cell line which expresses human CD28 (Cluster of Differentiation 28).

Sequence data: hCD28 (accession number NP_006130)

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MLRLLLALNLFPSIQVTGNKILVKQSPMLVAYDNAVNLSC  
KYSYNLFSREFRASLHKGLDSAVEVCVVYGNYSQQLVVYS  
KTGFNCDGKLGNESVTFYLQNLVYNQTDIYFCKIEVMYPP  
PYLDNEKSNGTIIHVKGKHLCPSPFPGPSKPFWVLVVVG  
GVLACYLLVTVAFIIFWVRSKRSRLLHSDYMNMTPRRP  
GPTRKHYPYAPPRDFAAYRS
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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 CD28 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.

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.

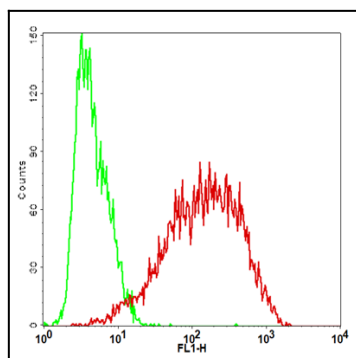
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Fig-1: Detection of human CD28 in the CHO-K1/CD28 stable cell line. Cells were stained with FITC-conjugated anti-human CD28 antibody (Abeomics, Cat. No. 10-4137F). Parental CHO-K1 cells (Green); CHO-K1/CD28 cells (Red).