abcam

Product datasheet

Cholesterol Uptake Assay Kit ab236212

3 References 画像数 3

製品の概要

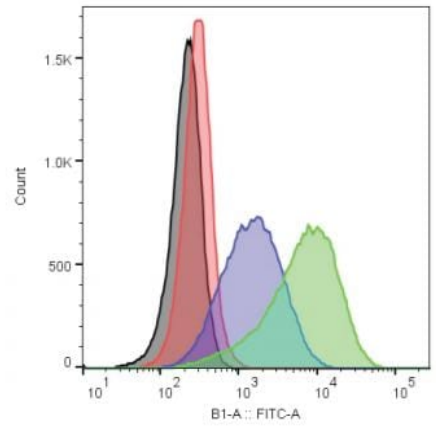
製品名	Cholesterol Uptake Assay Kit
検出方法	Fluorescent
サンプルの種類	Adherent cells, Suspension cells
製品の概要	Cholesterol Uptake Assay Kit (ab236212) provides a convenient tool for studying cellular cholesterol trafficking. The kit employs NBD Cholesterol, a fluorescently-tagged cholesterol, as a probe for the detection of cholesterol taken up by cultured cells. U-18666A, which increases cholesterol uptake by inhibiting trafficking of synthesized cholesterol, is included as a positive control. The kit provides enough NBD Cholesterol to test 250 samples in a 96-well format.
特記事項	Other cholesterol assay kits include: - **HDL and LDL/VLDL Cholesterol assay kit ab65390** - C**ell-based Cholesterol assay kit ab133116** - **Cholesterol/Cholesterol Ester assay kit ab65359** - **Cholesterol Efflux assay kit ab196985**
試験プラットフォーム	Microplate reader, Fluor. microscope, Flow cyt.

製品の特性

保存方法	Please refer to protocols.

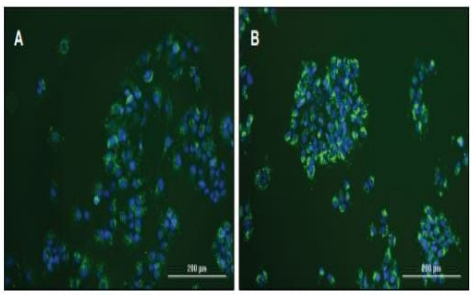
内容	1 kit	1 kit
Cell-Based Assay Buffer Tablet	1 tablet	1 tablet
Cell-Based Assay NBD Cholesterol	1 x 500µl	1 x 500µl
Cell-Based Assay U-18666A	1 x 100µl	1 x 100µl

画像

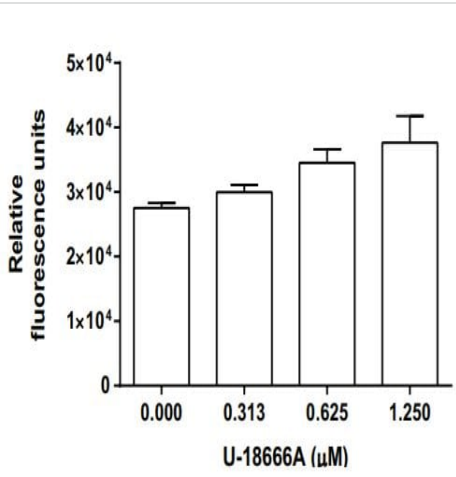


U-18666A increases cholesterol uptake in Jurkat cells as measured by flow cytometry

Jurkat cells were seeded at a density of $5x10^5$ cells/mL and incubated overnight in serum-free RPMI with U-18666A or vehicle and 20 µg/mL NBD Cholesterol in a cell culture incubator at 37°C. The next day, cells were transferred to a v-bottom plate for washing and reading on a flow cytometer. Cholesterol uptake was evaluated in the live cell gate using FlowJo analysis software. U-18666A at both 2.5 µM (green) and 1.25 µM (blue) showed a significant ($p<0.05$, t-test) shift in mean fluorescence as compared to the vehicle control (black) and the untreated (red) cells.



Blocking intracellular cholesterol transport with U-18666A increases NBD cholesterol uptake



U-18666A causes a dose-dependent increase in NBD Cholesterol uptake in Caco-2 cells, as measured on a fluorescent plate reader

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