**Product overview**

**Product name**  Cholesterol Efflux Assay Kit (Cell-based)

**Detection method**  Fluorescent

**Sample type**  Adherent cells, Purified protein

**Assay type**  Cell-based (quantitative)

**Species reactivity**  Reacts with: Mammals, Other species

**Product overview**  Cholesterol Efflux Assay Kit ab196985 is a high-throughput, cell-based screening assay for measuring cholesterol efflux. The cholesterol efflux assay protocol uses fluorescently-labeled cholesterol (Ex/Em 482/515 nm). It provides a safe, sensitive and reproducible method for measuring cholesterol efflux.

This cholesterol efflux assay can be used to:
- screen small molecules for their effect on cholesterol efflux as a part of drug discovery program.

**Cholesterol efflux assay protocol summary:**
- label cells with labeling and equilibration mix overnight
- wash cells, treat as required and incubate
- transfer cell supernatant to microplate, and separately solubilize cells with cell lysis buffer
- analyze supernatant and cell lysates with microplate reader

**Notes**

Cholesterol efflux from the peripheral tissues and cells in atherosclerotic plaque is an initial and critical step in Reverse Cholesterol Transport (RCT). RCT is the process by which extra hepatic cells, including macrophage-derived foam cells in arterial atherosclerotic plaque, transport excessive cholesterol back to the liver for bile acid synthesis and excretion, thus lowering the peripheral lipid burden.

Other cholesterol assay kits include:
- HDL and LDL/VLDL Cholesterol assay kit ab65390
- Cell-based Cholesterol assay kit ab133116
- Cholesterol/Cholesterol Ester assay kit ab65359
- Cholesterol Uptake assay kit ab236212

**Platform**  Microplate reader

**Storage instructions**  Store at -20°C. Please refer to protocols.
J774.1 cells were labeled with the Labeling Media and treated with various cholesterol acceptors like Human Serum, HDL (50 µg) or Positive control known to cause cholesterol efflux. Cholesterol efflux is expressed as % efflux elicited by cells in 4 hours.

### Components

<table>
<thead>
<tr>
<th>Components</th>
<th>100 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Lysis Buffer</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>Equilibration Buffer</td>
<td>1 x 5ml</td>
</tr>
<tr>
<td>Labeling Reagent</td>
<td>1 x 5ml</td>
</tr>
<tr>
<td>Positive Control</td>
<td>1 x 1ml</td>
</tr>
<tr>
<td>Reagent A</td>
<td>1 x 10µl</td>
</tr>
<tr>
<td>Reagent B</td>
<td>1 x 10µl</td>
</tr>
<tr>
<td>Serum Treatment Reagent</td>
<td>1 x 1ml</td>
</tr>
</tbody>
</table>

### Images

![Percentage Cholesterol Efflux](image)

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