Cytosolic Phospholipase A2 Assay Kit ab133090

Overview

Product name: Cytosolic Phospholipase A2 Assay Kit
Detection method: Colorimetric
Sample type: Cell culture extracts, Tissue Extracts
Assay type: Enzyme activity (quantitative)
Species reactivity: Reacts with: Mammals, Other species

Product overview:
Cytosolic Phospholipase A2 Assay Kit (ab133090) can be used to determine the activity of cytosolic Phospholipase A2 (cPLA2) in purified preparations, cell cultures, or tissue homogenates. Use of this assay with preparations containing more than one type of PLA2 will result in the measurement of total PLA2 activity rather than cPLA2 alone.

If you want to detect secretory PLA2, we recommend using Secretory Phospholipase Assay Kit (ab133089).

Platform:
Microplate reader

Properties

Storage instructions:
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-Well Plate (Colorimetric Assay)</td>
<td>1 unit</td>
</tr>
<tr>
<td>96-Well Plate Cover</td>
<td>1 unit</td>
</tr>
<tr>
<td>Arachidonoyl Thio-PC (Substrate)</td>
<td>2 vials</td>
</tr>
<tr>
<td>Bee venom PLA2 Control</td>
<td>1 vial</td>
</tr>
<tr>
<td>Bromoenol Lactone Solution</td>
<td>1 vial</td>
</tr>
<tr>
<td>cPLA2 Assay Buffer</td>
<td>1 vial</td>
</tr>
<tr>
<td>DTNB/EGTA</td>
<td>4 vials</td>
</tr>
</tbody>
</table>

Function:
Selectively hydrolyzes arachidonyl phospholipids in the sn-2 position releasing arachidonic acid. Together with its lysophospholipid activity, it is implicated in the initiation of the inflammatory
**Tissue specificity**
Expressed in various tissues such as macrophages, platelets, neutrophils, fibroblasts and lung endothelium.

**Sequence similarities**
Contains 1 C2 domain.
Contains 1 PLA2c domain.

**Domain**
The N-terminal C2 domain associates with lipid membranes upon calcium binding. It modulates enzyme activity by presenting the active site to its substrate in response to elevations of cytosolic Ca(2+).

**Post-translational modifications**
Activated by phosphorylation at both Ser-505 and Ser-727.

**Cellular localization**
Cytoplasm. Cytoplasmic vesicle. Translocates to membrane vesicles in a calcium-dependent fashion.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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