Overview

Product name: Secretory Phospholipase A2 Assay Kit
Detection method: Colorimetric
Sample type: Plasma
Assay type: Enzyme activity (quantitative)
Species reactivity: Reacts with: Mammals, Other species

Product overview:
Secretory Phospholipase A2 Assay Kit (ab133089) provides an accurate and convenient method for measurement of secretory PLA2 (sPLA2) activity. This assay uses the 1,2-dithio analog of diheptanoyl phosphatidylcholine which serves as a substrate for most PLA2s (e.g., bee and cobra venoms, pancreatic, etc.) with the exception of cytosolic PLA2. Upon hydrolysis of the thio ester bond at the sn-2 position by PLA2, free thiols are detected using DTNB (5,5'-dithio-bis-(2-nitrobenzoic acid)).

If you want to detect cytosolic PLA2, we recommend using Cytosolic Phospholipase A2 Assay Kit (ab133090).

Notes:
Abcam has not and does not intend to apply for the REACH Authorisation of customers’ uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Platform: Microplate reader

Properties

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

Components:

<table>
<thead>
<tr>
<th>Components</th>
<th>96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-Well Plate (Colorimetric Assay)</td>
<td>1 x 96 tests</td>
</tr>
<tr>
<td>96-Well Plate Cover</td>
<td>1 unit</td>
</tr>
<tr>
<td>Bee venom PLA2 Control</td>
<td>1 vial</td>
</tr>
<tr>
<td>sPLA2 Assay Buffer (10X)</td>
<td>1 vial</td>
</tr>
</tbody>
</table>
**Function**

Thought to participate in the regulation of the phospholipid metabolism in biomembranes including eicosanoid biosynthesis. Catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides.

**Sequence similarities**

Belongs to the phospholipase A2 family.

**Cellular localization**

Membrane.

<table>
<thead>
<tr>
<th>Components</th>
<th>96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>sPLA2 Diheptanoyl Thio-PC (Substrate)</td>
<td>2 vials</td>
</tr>
<tr>
<td>sPLA2 DTNB</td>
<td>4 vials</td>
</tr>
</tbody>
</table>

**Absorbance times for bee venom, snake venom, human synovial, and bovine pancreas PLA2s.**

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

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