Abcam Calcineurin Phosphatase Activity Assay Kit (Colorimetric) (ab139461) is a complete non-radioactive colorimetric assay kit designed for measuring calcineurin phosphatase activity through kinetic assay or for inhibitor screening. The activity is determined using the RII phosphopeptide substrate, the most efficient and selective peptide known for calcineurin, and detection of free phosphate released is based on the classic malachite green assay.

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

Storage instructions
Store at -80°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 96 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>96-well Clear Microplate (1/2 Volume)</td>
<td>1 unit</td>
</tr>
<tr>
<td>Active Calcineurin Enzyme</td>
<td>1 x 50µl</td>
</tr>
<tr>
<td>Calcineurin Assay Buffer</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>Calcineurin Substrate</td>
<td>1 x 1.5mg</td>
</tr>
<tr>
<td>Calmodulin</td>
<td>1 x 100µl</td>
</tr>
</tbody>
</table>
**Function**
Calcium-dependent, calmodulin-stimulated protein phosphatase. This subunit may have a role in the calmodulin activation of calcineurin. Dephosphorylates DNM1L, HSPB1 and SSH1.

**Sequence similarities**
Belongs to the PPP phosphatase family. PP-2B subfamily.

**Cellular localization**
Nucleus. Colocalizes with ACTN1 and MYOZ2 at the Z line in heart and skeletal muscle.

### Components

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green Assay Reagent</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>Phosphate Standard</td>
<td>1 x 0.5ml</td>
</tr>
</tbody>
</table>

### Images

**Standard Curve**

**Time Course**
In the presence (+) of Calmodulin, Calcineurin's activity is high. In the absence (-) of Calmodulin, Calcineurin activity is relatively low.

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

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- We investigate all quality concerns to ensure our products perform to the highest standards

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