**Product name**
Plasma Membrane Protein Extraction Kit

**Assay time**
1h 00m

**Product overview**
Plasma Membrane Protein Extraction Kit ab65400 provides optimized buffers and reagents for effective extraction of plasma membrane proteins from mammalian tissues and cells.

Other commercially available methods can only extract the total cellular membrane proteins (combinations of plasma and organelle membrane proteins). The ab65400 kit offers two options: either extract the total cellular membrane proteins, or purify the plasma membrane proteins specifically.

The procedure offers consistent yield and high purity (over 90%). Membrane proteins prepared using the kit can be utilized in a variety of applications, such as Western blotting, 2-D gels, and enzyme analyses, etc. The entire procedure takes less than 1 hour.

**Notes**
This product is manufactured by BioVision, an Abcam company and was previously called K268 Membrane Protein Extraction Kit. K268-50 is the same size as the 50 test size of ab65400.

### Properties

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

<table>
<thead>
<tr>
<th>Components</th>
<th>50 tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homogenization Buffer I</td>
<td>1 x 100ml</td>
</tr>
<tr>
<td>Lower Phase Solution</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>Protease Inhibitor Cocktail I</td>
<td>1 vial</td>
</tr>
<tr>
<td>Upper Phase Solution</td>
<td>1 x 20ml</td>
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</tbody>
</table>

**Relevance**
Membrane Protein Extraction is a method for extraction of membrane proteins from mammalian tissues and cells. Many procedures extract total cellular membrane proteins which is a combination of plasma and organelle membrane proteins.
Western blotting on the plasma membrane (PM) fraction extracted using ab65400, total cellular membrane (TCM) fraction, and total lysate of cells expressing GFP-tagged ASIC2a or ASIC2b was performed using anti-GFP antibody. As controls, the PM and the TCM fractions were blotted using anti-calnexin (CNX) antibody, and total lysate was blotted using anti-GAPDH antibody.

Cell membrane protein was collected using plasma membrane protein extraction kit (ab65400). The upper panels show the plasma membrane myc-tagged protein; the middle panels show the cytosolic myc-tagged proteins and the lower panels show the total myc-tagged protein from CHO (Chinese Hamster ovary) whole-cell lysates.
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