# Cytokine Array – Rat Cytokine Antibody Array (Membrane, 34 Targets) ab133992

## Overview

**Product name**  
Cytokine Array – Rat Cytokine Antibody Array (Membrane, 34 Targets)

**Sample type**  
Cell culture supernatant, Saliva, Milk, Urine, Serum, Plasma, Cell culture extracts, Other biological fluids, Whole Blood, Tissue Extracts, Cell Lysate, Cell culture media

**Assay type**  
Semi-quantitative

**Species reactivity**  
Reacts with: Rat

**Product overview**  
ab133992 is for simultaneous detection of 34 Rat Cytokines. Suitable for all sample types.

**Targets:**  
Activin A, Agrin, Thymus Chemokine-1, B7-2/CD86, CINC-1, CINC-2alpha, CINC-3, CNTF, Fas Ligand, Fractalkine, GM-CSF, ICAM-1, IFN-gamma, IL-1 R6, IL-10, IL-13, IL-1alpha, IL-1beta, IL-2, IL-4, IL-6, Leptin, LIX, L-Selectin, MCP-1, MIP-3alpha, MMP-8, beta-NGF, PDGF-AA, Prolactin R, RAGE, TIMP-1, TNF-alpha, VEGF.

Cytokine arrays are an antibody-pair-based assay, analogous to ELISA, but using a membrane as a substrate rather than a plate. Capture antibodies are supplied arrayed/spotted on a membrane with each pair of spots representing a different analyte. Sample is added (0.2-1ml of 1 sample to each membrane), and then paired biotinylated detector antibodies and streptavidin HRP. The cytokine array is analyzed using the same methods as a chemiluminescent western blot. Comparison between samples can be by eye or using densitometry software for a semi-quantitative comparison.

## Notes

If you are interested in this cytokine array, a table listing all of our rat membrane antibody cytokine arrays and other arrays and the analytes they measure is available [here](#).

## Tested applications

Suitable for: Multiplex Protein Detection

## Storage instructions

Store at -20°C. Please refer to protocols.
Multiplex Protein Detection - Rat Cytokine Antibody Array - Membrane (34 Targets) (ab133992)

Typical results obtained with Abcam Human Cytokine Membrane Antibody Array. These membranes were probed with conditioned media from two different cell lines. Membranes were exposed to film at RT for 1 min.

<table>
<thead>
<tr>
<th>Components</th>
<th>1 x 4 Membranes</th>
<th>1 x 8 Membranes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000X HRP-Conjugated Streptavidin</td>
<td>1 x 50µl</td>
<td>1 x 50µl</td>
</tr>
<tr>
<td>1X Blocking Buffer</td>
<td>1 x 25ml</td>
<td>2 x 25ml</td>
</tr>
<tr>
<td>20X Wash Buffer I</td>
<td>1 x 10ml</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>20X Wash Buffer II</td>
<td>1 x 10ml</td>
<td>1 x 20ml</td>
</tr>
<tr>
<td>2X Cell Lysis Buffer</td>
<td>1 x 10ml</td>
<td>1 x 16ml</td>
</tr>
<tr>
<td>8-Well Incubation Tray (with Lid)</td>
<td>1 unit</td>
<td>1 unit</td>
</tr>
<tr>
<td>Biotin-Conjugated Anti-Cytokines</td>
<td>2 vials</td>
<td>4 vials</td>
</tr>
<tr>
<td>Cytokine Antibody Array Membranes</td>
<td>4 units</td>
<td>8 units</td>
</tr>
<tr>
<td>Detection Buffer C</td>
<td>1 x 1.5ml</td>
<td>1 x 2.5ml</td>
</tr>
<tr>
<td>Detection Buffer D</td>
<td>1 x 1.5ml</td>
<td>1 x 2.5ml</td>
</tr>
</tbody>
</table>

Applications

Our Abpromise guarantee covers the use of ab133992 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multiplex Protein Detection</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
</tbody>
</table>

Images

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