Human Inflammation Antibody Array - Membrane (40 Targets)
ab134003

2 References 画像数 5

製品の概要

製品名
Human Inflammation Antibody Array - Membrane (40 Targets)

サンプルの種類
Cell culture supernatant, Saliva, Milk, Urine, Serum, Plasma, Cell culture extracts, Other biological fluids, Whole Blood, Tissue Extracts, Cell Lysate, Cell culture media

アッセイタイプ
Semi-quantitative

種交差性
交差種: Human

製品の概要

ab134003 is for simultaneous detection of 40 Human Inflammatory Factors. Suitable for all sample types.

Targets: Eotaxin, Eotaxin-2, GCSF, GM-CSF, ICAM-1, IFN-gamma, I-309, IL-1alpha, IL-1beta, IL-2, IL-3, IL-4, IL-6, IL-6sR, IL-7, IL-8, IL-10, IL-11, IL-12p40, IL-12p70, IL-13, IL-15, IL-16, IL-17, IP-10, MCP-1, MCP-2, M-CSF, MIG, MIP-1alpha, MIP-1beta, MIP-1delta, RANTES, TGF-beta1, TNF-alpha, TNF-beta, sTNF RI, sTNF-RII, PDGF-BB, TIMP-2

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.

Learn more about membrane antibody arrays

特記事項

If you are interested in this cytokine array, arrays ab133997, ab169817, ab133998, ab169804, ab169805 and ab133996 may also be of interest.

A table listing all of our human membrane antibody cytokine arrays and other arrays and the analytes they measure is available here.

アプリケーション

適用あり: Multiplex Protein Detection

製品の特性
Store at -20°C. Please refer to protocols.

<table>
<thead>
<tr>
<th>内容</th>
<th>1 x 4 Membranes</th>
<th>1 x 8 Membranes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000X HRP-Streptavidin Buffer</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>Inflammation 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>

**アプリケーション**

Our Abpromise guarantee covers the use of ab134003 in the following tested applications.

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

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<th>アプリケーション</th>
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<td>Multiplex Protein Detection</td>
<td>Use at an assay dependent concentration.</td>
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**画像**

Human peripheral blood cells (1x10^6 cells/mL) were cultured in RPMI media supplemented with 10% fetal calf serum, 100 U/mL penicillin, and 100 mg/mL streptomycin sulfate. Cells were cultured unstimulated or stimulated with 10 mg/mL PHA.

Conditioned media was harvested after 48 hours, aliquoted and assayed using ab134003. Media alone was used as a negative control.
Conditioned media was harvested after 48 hours, aliquoted and assayed using ab134003. Media alone was used as a negative control. Mean pixel density was quantified using CCD camera software analysis.

Human serum from a pooled donor (n=50) sample was diluted to 25% and assayed using ab134003.
Left image: Conditioned media from iPSC-derived astrocytes; right image: Media only control.

Samples were incubated overnight at 4°C as recommended and included the large volume wash. Images were captured using CCD camera for the exposure times indicated on the image.

Rating 5/5. Simple, sensitive and accurate method to detect multiple cytokines and growth factors from a single sample. The membranes were also consistent across the batch which allowed me to test several samples in parallel. Highly recommended.

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

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