Overview

Product name: Human Angiogenesis Antibody Array - Membrane (20 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: Human

Product overview: ab13400 is for simultaneous detection of 20 Human Angiogenic factors. Suitable for all sample types.

**Targets:** Angiogenin, EGF, ENA-78, bFGF, GRO, IFN-gamma, IGF-I, IL-6, IL-8, Leptin, MCP-1, PDGF-BB, PIGF, RANTES, TGF-beta1, TIMP-1, TIMP-2, Thrombopoietin, VEGF-A, VEGF-D

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

Notes

If you are interested in this cytokine array, arrays ab133997, ab133998 and ab169819 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.

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.

Tested applications

Suitable for: Multiplex Protein Detection
Properties

Storage instructions

Store at -20°C. Please refer to protocols.

<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>Biotinylated Antibody Cocktail (C1)</td>
<td>2 vials</td>
<td>4 vials</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>
<tr>
<td>Human Angiogenesis Antibody Array Membranes (C1)</td>
<td>4 units</td>
<td>8 units</td>
</tr>
</tbody>
</table>

Applications

Our Abpromise guarantee covers the use of ab134000 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
THP-1 cells (Human peripheral blood monocytes) were seeded at 1x106 cells/mL and cultured in RPMI media supplemented with 10% fetal calf serum, 0.05mM 2-mercaptoethanol, 100 U/mL penicillin, and 100 µg/mL streptomycin sulfate. Cells were cultured for 2 days in the presence of LPS. Conditioned media was harvested after 48 hours post-stimulation, aliquoted and assayed using ab134000. Mean pixel density was quantified using CCD camera software analysis.

HUVEC cells (Human umbilical vein endothelial cells) were seeded at 1x106 cells/mL and cultured in RPMI media supplemented with 10% fetal calf serum, 0.1 mg/mL heparin, 0.05 mg/mL ECGS, 100 U/mL penicillin, and 100 µg/mL streptomycin sulfate. Conditioned media was harvested after 48 hours, aliquoted and assayed using ab134000. Mean pixel density was quantified using CCD camera software analysis.

Human serum and plasma (EDTA) from a pooled donor (n=50) sample was diluted to 25% and assayed using ab134000. Mean pixel density was quantified using CCD camera software analysis.

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

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

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