

## Product datasheet

# Human Angiogenesis Antibody Array - Membrane (20 Targets) ab134000

[4 References](#) [3 Images](#)

### Overview

---

<b>Product name</b>	Human Angiogenesis Antibody Array - Membrane (20 Targets)
<b>Sample type</b>	Cell culture supernatant, Saliva, Milk, Urine, Serum, Plasma, Cell culture extracts, Other biological fluids, Whole Blood, Tissue Extracts, Cell Lysate, Cell culture media
<b>Assay type</b>	Semi-quantitative
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Product overview</b>	<b>ab134000</b> 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.

Components	1 x 4 Membranes	1 x 8 Membranes
1,000X HRP-Conjugated Streptavidin	1 x 50µl	1 x 50µl
1X Blocking Buffer	1 x 25ml	2 x 25ml
20X Wash Buffer I	1 x 10ml	1 x 20ml
20X Wash Buffer II	1 x 10ml	1 x 20ml
2X Cell Lysis Buffer	1 x 10ml	1 x 16ml
8-Well Incubation Tray (with Lid)	1 unit	1 unit
Biotinylated Antibody Cocktail (C1)	2 vials	4 vials
Detection Buffer C	1 x 1.5ml	1 x 2.5ml
Detection Buffer D	1 x 1.5ml	1 x 2.5ml
Human Angiogenesis Antibody Array Membranes (C1)	4 units	8 units

## Applications

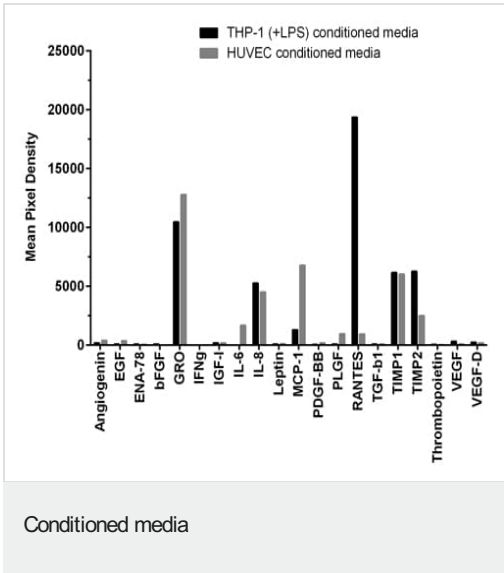
### The Abpromise guarantee

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.

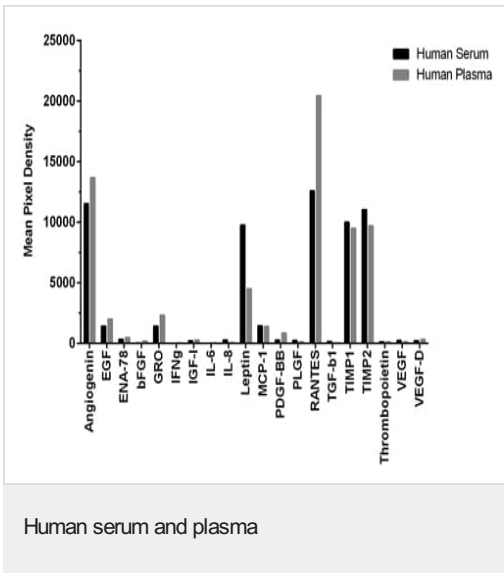
Application	Abreviews	Notes
<b>Multiplex Protein Detection</b>		Use at an assay dependent concentration.

## Images

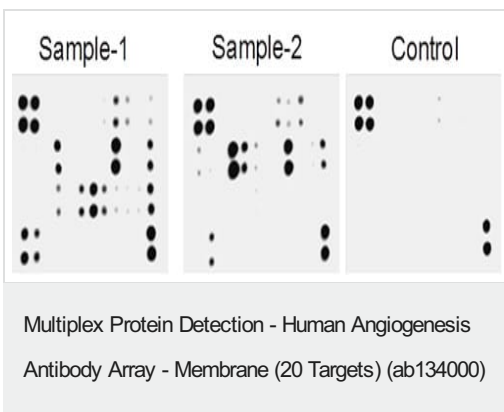


THP-1 cells (Human peripheral blood monocytes) were seeded at  $1 \times 10^6$  cells/mL and cultured in RPMI media supplemented with 10% fetal calf serum, 0.05mM 2-mercaptoethanol, 100 U/mL penicillin, and 100  $\mu$ g/mL streptomycin sulfate. Cells were cultured for 2 days in the presence of LPS. Conditioned 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  $1 \times 10^6$  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  $\mu$ g/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"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors