abcam

Product datasheet

Human Growth Factor Antibody Array - Membrane (41 Targets) ab134002

21 References 6 Images

Overview

Product name Human Growth Factor Antibody Array - Membrane (41 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 ab134002 is for simultaneous detection of 41 Human Growth Factors. Suitable for all sample

types.

Targets: Amphiregulin, bFGF, EGF, EGF R, FGF-4, FGF-6, FGF-7, GCSF, GDNF, GM-CSF, HB-EGF, HGF, IGFBP-1, IGFBP-2, IGFBP-3, IGFBP-4, IGFBP-6, IGF-I, IGF-I SR, IGF-II, M-CSF, M-CSF R, beta-NGF, NT-3, NT-4, PDGF Ra, PDGF Rß, PDGF-AA, PDGF-AB, PDGF-BB, PLGF, SCF, SCF R, TGF-alpha, TGF-beta, TGF-beta2, TGF-beta3, VEGF-A, VEGF R2, VEGF R3, 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 semiquantitative comparison.

Learn more about membrane antibody arrays

If you are interested in this cytokine array, array ab133998 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.

Authorisation, and any other relevant authorisations, for their intended uses.

It is the responsibility of our customers to check the necessity of application of REACH

Notes

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
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
Biotin-Conjugated Anti-Cytokines	2 vials	4 vials
1X Blocking Buffer	1 x 25ml	2 x 25ml
Detection Buffer C	1 x 1.5ml	1 x 2.5ml
Detection Buffer D	1 x 1.5ml	1 x 2.5ml
Growth Factor Antibody Array Membranes	4 units	8 units

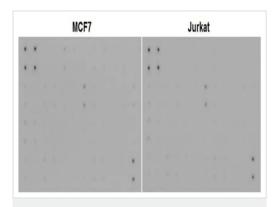
Applications

The Abpromise guarantee Our <u>Abpromise guarantee</u> covers the use of ab134002 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	
Multiplex Protein Detection		Use at an assay dependent concentration.	

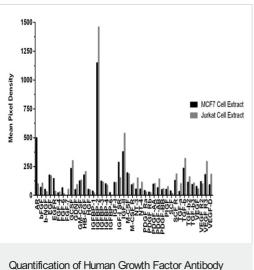
Images



Multiplex Protein Detection - Human Growth Factor
Antibody Array - Membrane (41 Targets) (ab134002)

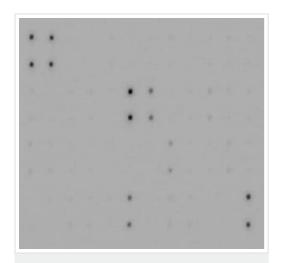
MCF7 cells (Human breast adenocarcinoma) were seeded at $1x10^6$ cells/mL and cultured in EMEM media supplemented with 10% fetal calf serum, 100 U/mL penicillin, and 100 μ g/mL streptomycin sulfate. Jurkat cells (Human T lymphocytes) were seeded at $1x10^6$ cells/mL and cultured in RPMI media supplemented with 10% fetal calf serum, 100 U/mL penicillin, and 100 μ g/mL streptomycin sulfate.

Cells were cultured for 48 hours, washed and harvested. Cell and tissue extracts were prepared and 250 µg of total protein was assayed using ab134002.



Quantification of Human Growth Factor Antibody Array

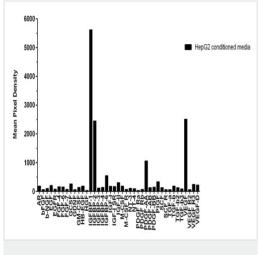
Cells were cultured for 48 hours, washed and harvested. Cell and tissue extracts were prepared and 250 μg of total protein was assayed using ab134002. Mean pixel density was quantified using CCD camera software analysis.



Multiplex Protein Detection - Human Growth Factor Antibody Array - Membrane (41 Targets) (ab134002)

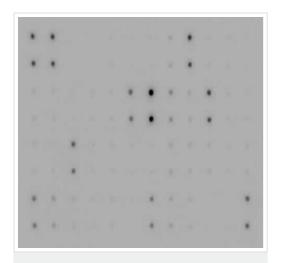
HepG2 cells (Human hepatocellular carcinoma) were seeded at 1x106 cells/mL and cultured in EMEM media supplemented with 10% fetal calf serum, 100 U/mL penicillin, and 100 μ g/mL streptomycin sulfate.

Conditioned media was harvested after 48 hours, aliquoted and assayed using ab134002.



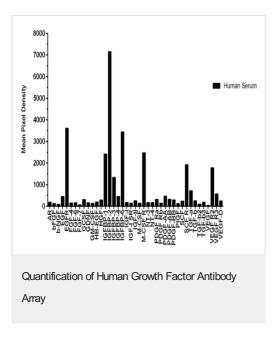
Quantification of Human Growth Factor Antibody Array

Conditioned media was harvested after 48 hours, aliquoted and assayed using ab134002. 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 ab134002.

Multiplex Protein Detection - Human Growth Factor Antibody Array - Membrane (41 Targets) (ab134002)



Human serum from a pooled donor (n=50) sample was diluted to 25% and assayed using ab134002. Mean pixel density was quantified using CCD camera software analysis.

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