abcam

Product datasheet

Cytokine Array - Human Cytokine Antibody Array (Membrane, 23 Targets) ab133996

7 References 3 图像

概述

产品名称	细胞因子阵列-人Cytokine抗体阵列(Membrane，23 Targets)
样品类型	Cell culture supernatant, Saliva, Milk, Urine, Serum, Plasma, Cell culture extracts, Other biological fluids, Whole Blood, Tissue Extracts, Cell Lysate, Cell culture media
检测类型	Semi-quantitative
种属反应性	**与反应：** Human
产品概述	ab133996 is for simultaneous detection of 23 Human Cytokines. Suitable for all sample types. **Targets:** G-CSF, GM-CSF, GRO (alpha, beta & gamma), GRO-alpha, IL-1alpha, IL-2, IL-3, IL-5, IL-6, IL-7, IL-8, IL-10, IL-13, IL-15, IFN-gamma, MCP-1, MCP-2, MCP-3, MIG, RANTES, TGF-beta1, TNF-alpha, TNF-beta 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**
说明	If you are interested in this cytokine array, arrays **ab133997**, **ab169804**, **ab134003**, **ab133998** and **ab169817** may also be of interest. **A table listing all of our mouse 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.

经测试应用 **适用于:** Multiplex Protein Detection

性能

存放说明 Store at -20°C. Please refer to protocols.

组件	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
Biotin-Conjugated Anti-Cytokines	2 vials	4 vials
Cytokine Antibody Array Membranes	4 units	8 units
Detection Buffer C	1 x 1.5ml	1 x 2.5ml
Detection Buffer D	1 x 1.5ml	1 x 2.5ml

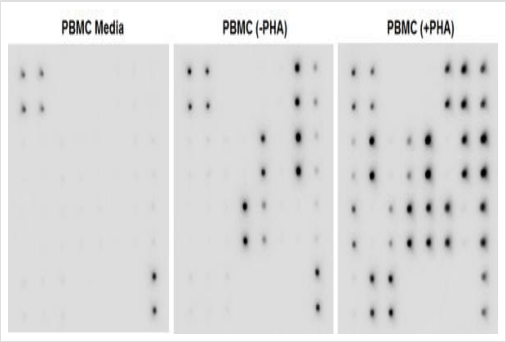
应用

The Abpromise guarantee **Abpromise™承诺保证使用ab133996于以下的经测试应用**

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Multiplex Protein Detection		Use at an assay dependent concentration.

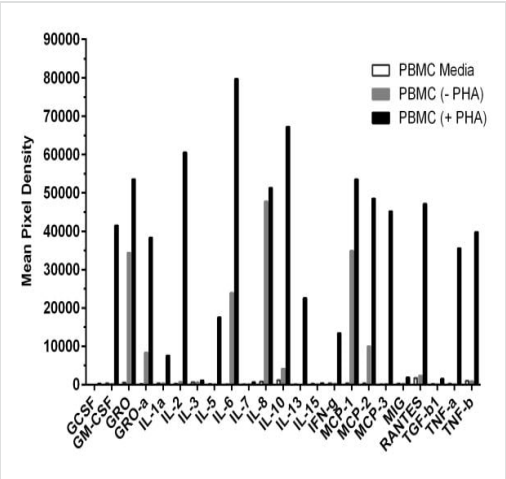
图片



Multiplex Protein Detection - Human Cytokine Antibody Array - Membrane (23 Targets) (ab133996)

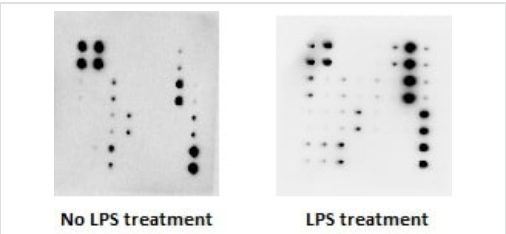
Human peripheral blood cells (1x10^6 cells/mL) were cultured in RPMI media supplemented with 10% fetal calf serum, 100 U/mL penicillin, and 100 mg/mL streptomycin sulfate.

Cells were cultured unstimulated or stimulated with 10 µg/mL PHA. Conditioned media was harvested after 48 hours, aliquoted and assayed using ab133996. Media alone was used as a negative control.



Quantification of Human Cytokine Antibody Array

Cells were cultured unstimulated or stimulated with 10 µg/mL PHA. Conditioned media was harvested after 48 hours, aliquoted and assayed using ab133996. Media alone was used as a negative control. Samples were incubated on the human cytokin antibody arrays and results were quantified using the ULTRAQuant software.



Human Cytokine Antibody Array - Membrane (23 Targets) (ab133996)

This image is courtesy of an anonymous Abreview.

Abreview rating 4/5 stars. Review from Abcam user community. Verified customer. Submitted Oct 2 2014.

The human cytokine antibody array containing 23 target proteins was used to determine the effect of lipopolysaccharide (LPS) on the induction of cytokine production in macrophages. One million macrophage cells were plated in two sets and used in the study, one set was treated with PBS alone while the other set is treated with LPS at 1 µg/mL for 24 h. After 24 h of LPS treatment, both sets of macrophages were harvested using the provided cell lysis buffer and the cells were mechanically disrupted using a 20-gauge needle. Disrupted cell lysates were centrifuged and the supernatant was collected. The protein concentration of the supernatant was determined and 200 µg of proteins diluted in the blocking buffer was applied into previously blocked membranes and stored overnight at 4 °C. The remainder of the experiment was performed

using the manufacturer's instructions where all remaining incubations were performed at room temperature for 2 h. After incubation and washing steps, the proteins were detected using the provided detection reagents and photographed in a blot imaging system. Membranes were exposed for 15 s.

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