

Product datasheet

Cytokine Array - Mouse Cytokine Antibody Array (Membrane, 22 Targets) ab133993

[13 References](#) [1 Image](#)

Overview

Product name	Cytokine Array - Mouse Cytokine Antibody Array (Membrane, 22 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: Mouse
Product overview	ab133993 is for simultaneous detection of 22 Mouse Cytokines. Suitable for all sample types.

Targets: GCSF, GM-CSF, IL-2, IL-3, IL-4, IL-5, IL-6, IL-9, IL-10, IL-12 p40/p70, IL-12p70, IL-13, IL-17, IFN-gamma, MCP-1, MCP-5, RANTES, SCF, sTNF RI, TNF-alpha, Thrombopoietin, VEGF

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, a table of mouse cytokine membrane arrays and the analytes they measure is available [here](#).**

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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.

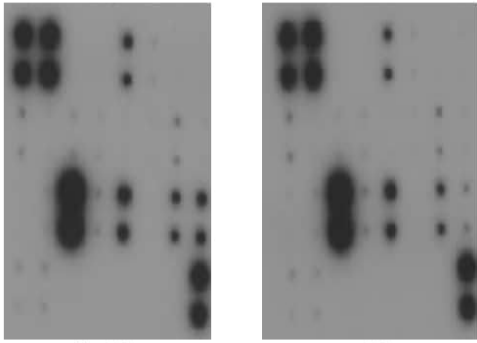
Components	1 x 4 Membranes	1 x 8 Membranes	1 x 2 Membranes
1,000X HRP-Conjugated Streptavidin	1 x 50µl	1 x 50µl	1 x 50µl
1X Blocking Buffer	1 x 25ml	2 x 25ml	1 x 25ml
20X Wash Buffer I	1 x 10ml	1 x 20ml	1 x 10ml
20X Wash Buffer II	1 x 10ml	1 x 20ml	1 x 10ml
2X Cell Lysis Buffer	1 x 10ml	1 x 16ml	1 x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

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133993 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 - Mouse Cytokine
Antibody Array - Membrane (22 Targets) (ab133993)

This image is courtesy of an Abreview submitted by M.C. Alejandro Huante-Mendoza and Dr. Victor Manuel Baizabal-Aguirre

The mouse cytokine antibody array containing 22 target proteins was used to determine the effect of an anti-inflammatory synthetic peptide (AISP) on the induction of cytokine production in mouse macrophages Raw264.7. Three million macrophages were plated in two sets in a six well plate and used in the study; one set was treated with vehicle alone while the other set was treated with the AISP at 20 µg/mL for 5 h. After 5 h of AISP treatment, the conditioned medium were collected and centrifuged at 14,000 rpm for 10 min and the supernatant was collected in a pre-cooled tube and stored overnight at 4 °C. The experiment was performed following the manufacturer's instructions. All incubations were performed at 4°C for 12 h. After incubation and washing steps, the proteins were detected using the provided detection reagents. Membranes were exposed for 15 s. The representative membranes for non-AISP and the AISP treated macrophages are shown.

Abreview rating 4/5 stars. Review from Abcam user community. Verified customer - Yi Chen, Ph.D. Research Fellow, Spiegelman Lab, Dana-Farber Cancer Institute, Department of Cancer Biology, Boston, USA. Submitted 25-Jun-15.

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