

Cytokine Array - Mouse Cytokine Antibody Array (Membrane, 32 Targets) ab133994

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

Overview

Product name	Cytokine Array - Mouse Cytokine Antibody Array (Membrane, 32 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	ab133994 is for simultaneous detection of 32 Mouse Cytokines. Suitable for all sample types.

Targets: 6Ckine, CTACK, Eotaxin, GCSF, GM-CSF, IL-2, IL-3, IL-4, IL-5, IL-6, IL-9, IL-10, IL-12p40/p70, IL-12 p70, IL-13, IL-17, IFN-gamma, KC/CXCL1, Leptin/OB, MCP-1, MCP-5, MIP-1alpha, MIP-2, MIP-3beta, RANTES, SCF, sTNF RI, TARC, TIMP-1, TNF-alpha, Thrombopoietin, VEGF-A

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 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.

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	2 vials
Cytokine Antibody Array Membranes	4 units	8 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

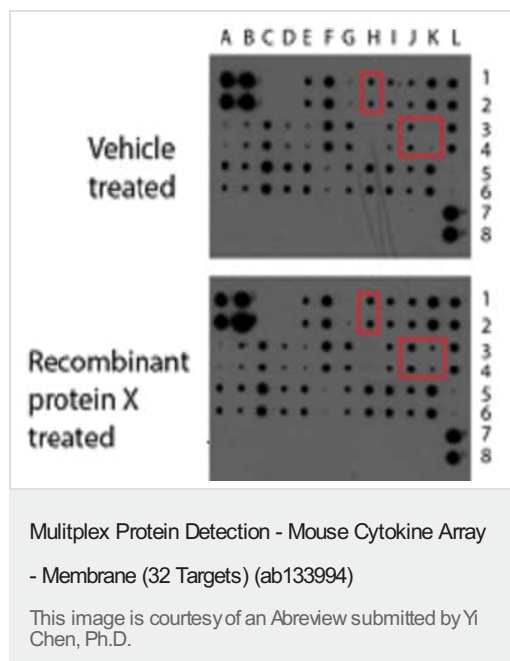
The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab133994 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



The cytokine antibody array was used to detect changes in cytokine/chemokine secretion by cultured mouse eosinophils treated with recombinant protein of interest or with vehicle control. Briefly, mouse primary eosinophils were harvested and cultured in suspension, 300ng/ml recombinant protein X (our protein of interest) or vehicle alone were added to the cells for 24 hours. Then the conditioned medium were harvested by centrifugation and added directly without dilution onto the cytokine antibody array (the array was first blocked according to manufacturer's protocol). Manufacturer's protocol was followed for the subsequent steps and the end result is shown in the following picture. The amount of three candidate cytokine/chemokines were identified to have changed in the treated conditioned medium: GCSF (H1 and H2), Leptin (K3 and K4), and KC (J3 and J4). The changes of Leptin and KC secretion were subsequently confirmed by ELISA in independent experiments.

Abreview rating 4/5 stars. Review from Abcam user community. Verified customers - 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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