

Product datasheet

Human Th1/Th2/Th17 Antibody Array - Membrane (34 targets) ab169809

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

Overview

Product name	Human Th1/Th2/Th17 Antibody Array - Membrane (34 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	ab169809 is for the simultaneous detection of 34 Human Th1, Th2, and Th17 cytokines. Suitable for all liquid sample types.

Targets: CD30, CD40 Ligand, CD40, G-CSF, GITR, GM-CSF, IFN-gamma, IL-1 beta, IL-1 sRI, IL-1 sRII, IL-2, IL-4, IL-5, IL-6, IL-6 R, IL-10, IL-12 p40, IL-12 p70, IL-13, IL-17, IL-17F, IL-17 R, IL-21, IL-21R, IL-22, IL-23 (p19), IL-28A, MIP-3 alpha, spg130, TGF beta 1, TGF beta 3, TNF alpha, TNF beta, TRANCE.

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 **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.

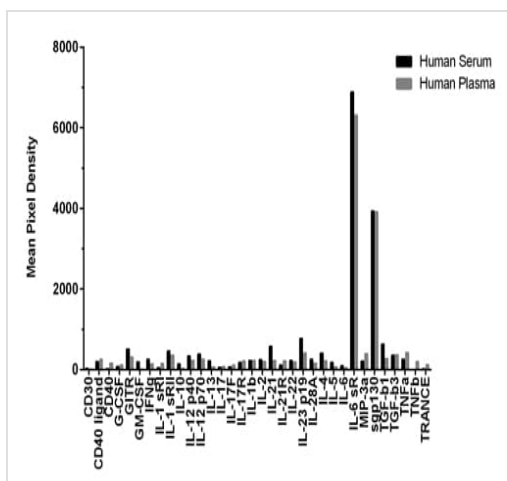
Components	1 x 4 Membranes	1 x 8 Membranes
1,000X HRP-Conjugated Streptavidin	1 x 50µl	1 x 50µl
1X Blocking Buffer	1 x 25ml	2 x 25ml
2000X Biotin-Conjugated Anti-Cytokines	1 x 2 vials	1 x 4 vials
20X Wash Buffer I	1 x 10ml	1 x 20ml
20X Wash Buffer II	1 x 10ml	1 x 20ml
2X Cell Lysis Buffer	1 x 10ml	1 x 16ml
8-Well Incubation Tray (with Lid)	1 unit	1 unit
Angiogenesis 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

Applications**The Abpromise guarantee**Our **Abpromise guarantee** covers the use of ab169809 in the following tested applications.

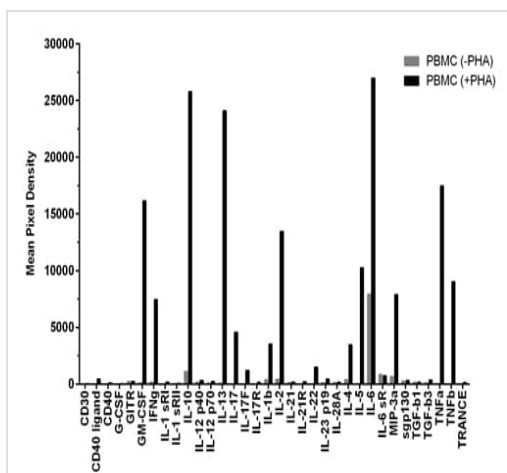
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Multiplex Protein Detection		Use at an assay dependent concentration.

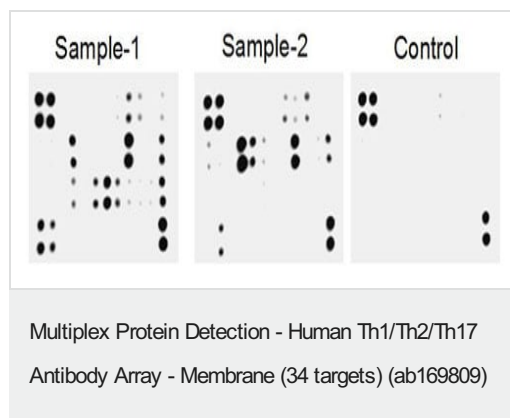
Images



Human serum and plasma (EDTA) from a pooled donor (n=50) sample was diluted to 25% and assayed using ab169809. Mean pixel density was quantified using CCD camera software analysis.



Human peripheral blood cells (1×10^6 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 mg/mL PHA. Conditioned media was harvested after 48 hours, aliquoted and assayed using ab169809. Mean pixel density was quantified using CCD camera software analysis.



Typical results obtained with Abcam Membrane Antibody Arrays. Image above presents typical images obtained with Abcam Human Cytokine Membrane Antibody Array. These membranes were probed with conditioned media from two different cell lines. Membranes were exposed to film at RT for 1 min.

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