

DIACLONE DIAplex Human Th1 / Th2 / Inflammation Multiple analyte detection by flow cytometry

Different populations of CD4+ T-Cells secrete differing patterns of cytokines that can lead to differing immune responses. The T Helper Type-1 (Th1) or Type-2 (Th2) cell cytokines can direct an antigenic response towards either a cell mediated or a humoral immune response respectively. The Th1 and Th2 cytokines cross regulate each other providing a mechanism for regulation of immune responses. A new subset of T helper cells that predominantly produce IL-17 (Th17 cells) are believed to be the major cell type involved in the induction of various pro-inflammatory cytokines.

► Flexible by design

DIAplex Complete provides multiplex assay sets which are preconfigured for the detection of a panel of analytes for investigation of a specific scientific area. An individual experiment can provide measurements of several analytes from a single sample.

DIAplex Complete ready configured detection panels:

Panel Cat No.	Th1 880.110.004	Th2 880.120.003	Th1 / Th2 880.140.007	Inflammation 880.130.004	Th1 / Th2 Inflammation 880.100.010
IFN γ	•		•		•
IL-2	•		•		•
IL-12p70	•		•		•
TNF α	•		•	•	•
IL-4		•	•		•
IL-6		•	•		•
IL-10		•	•		•
IL-8				•	•
IL-17A				•	•
IL-1 β				•	•

DIAplex Design combines the benefits of multiplexing with the ability to design your own analyte detection panel. The assays have been designed for use individually (simplex) or combined to create any size flex system. Each combination is supplied with a DIAplex accessory kit.

DIAplex Design – design your own panel from the following:

<input checked="" type="checkbox"/>	Cat no.	<input checked="" type="checkbox"/>	Cat no.
<input type="checkbox"/>	IFN γ 880.000.001	<input type="checkbox"/>	IL-4 880.020.001
<input type="checkbox"/>	IL-2 880.010.001	<input type="checkbox"/>	IL-17A 880.940.001
<input type="checkbox"/>	IL-10 880.060.001	<input type="checkbox"/>	IL-1 β 880.006.001
<input type="checkbox"/>	IL-8 880.050.001	<input type="checkbox"/>	TNF α 880.090.001
<input type="checkbox"/>	IL-6 880.030.001	<input type="checkbox"/>	IL-12p70 880.070.001

INTENDED USE

DIAplex Human Th1 / Th2 / Inflammation is a multiplexed fluorescent bead-based immunoassay for the quantification of multiple human cytokines in serum and culture supernatants by Flow Cytometry: IFN γ , TNF α , IL-1 β , IL-2, IL-4, IL-6, IL-8, IL-10, IL-12p70 and IL-17A

VERSATILITY & SIMPLICITY

- Measure up to 10 analytes simultaneously from a small sample volume
- Choose from ready configured detection panels or create your own
- Simple to use software provided free of charge
- Test either serum, plasma or cell culture supernatants
- Compatible with most flow cytometers

EFFICIENCY & RELIABILITY

- Cost effective & time saving with multiple results from a single experiment
- NIBSC standard calibration
- Robust validation
- Accurate quantitative results



DIAPlex

DIAPlex is a sensitive multiplex fluorescent bead-based immunoassay for the simultaneous quantification of multiple analytes from a single sample by flow cytometry.

Utilising bead populations with distinct fluorescence intensities and unique antibody specificities DIAplex can accurately measure multiple analytes in a single sample with a significantly reduced assay time and sample volume requirement when compared to traditional ELISA techniques.

PRODUCT RANGE

With the benefits of specific, sensitive and reliable measurement of multiple analytes in a single sample combined with significantly reduced assay times and sample volume requirements, Diaclone DIAplex is the clear choice to...

Fast Track Your Research

Other products available:



Monoclonal Antibodies



ELISA



ELISpot

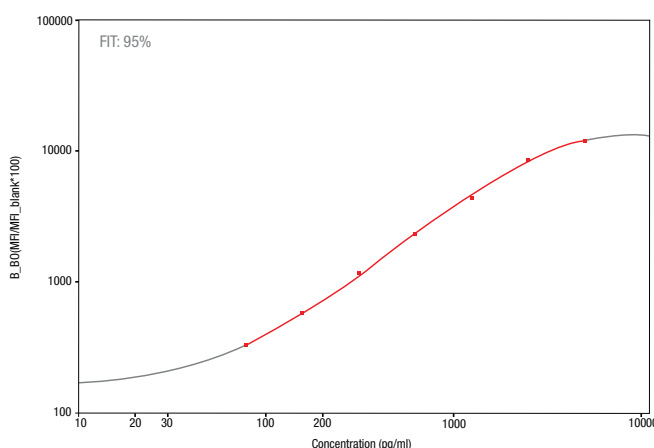
GLOBAL DISTRIBUTION

For the USA please contact our distributor
Cell Sciences, Tel: 888-769-1246
email: info@cellsciences.com

For all other countries please visit our
website for a full list of our distributors.

► Diaclone DIAplex PRO SOFTWARE

The Diaclone DIAplex Pro software is a simple to use tool enabling complete analysis of data files in minimal time after assay completion. Sample analyte concentrations are automatically calculated by comparison to a standard curve which is generated by the software and a comprehensive analysis report generated. Software and instructions for use available free of charge.



► DIAplex Human Th1 / Th2 / Inflammation Specifications

Product Name	Diaclone DIAplex Human Th1 / Th2 / Inflammation			
Analytes	IFN γ ; IL-2 ; IL-10 ; IL-8 ; IL-6 ; IL-4 ; IL-17A ; IL-1 β ; TNF α ; IL-12p70			
Species	Human			
Format	DIAplex for Flow Cytometry – multiple analyte detection			
Label	Biotin / Streptavidin - PE			
Quantity / Tests	96 tests per analyte			
Standard Range	78 - 5000 pg/ml			
Sample Volume Required	50 μ L for the single measurement of up to 10 analytes			
Incubation Time	180 min			
Sensitivity (LOD)	IFN γ	0.8 pg/mL	IL-4	4.3 pg/mL
	IL-2	12.4 pg/mL	IL-17A	8.7 pg/mL
	IL-10	1.7 pg/mL	IL-1 β	3.5 pg/mL
	IL-8	1.3 pg/mL	TNF α	9.8 pg/mL
	IL-6	1.4 pg/mL	IL-12p70	3.4 pg/mL
Mean Intra-assay CV	5.8%			
Mean Inter-assay CV	5.7%			
Suitable Samples	Cell culture supernatant, serum and plasma			

