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Datasheet for ABIN4956065 Human IL-1 Family Cytokine Array Q1

1 Image

1 Publication



Overview

Quantity:	50 samples
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	Antibody Array (AA), Multiplex ELISA (mpELISA)
Product Details	
Purpose:	Quantibody® Human IL-1 Family Cytokine Array 1 Kit. Detects all the 11 IL-1 Family Cytokine members. Suitable for all liquid sample types.
Sample Type:	Cell Culture Supernatant, Cell Lysate, Plasma, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Fluorometric
Specificity:	IL-1 alpha (IL-1 F1), IL-1 beta (IL-1 F2), IL-1 RA (IL-1 F3), IL-18, IL-33 (IL-1 F11), IL-36 alpha, IL-36 beta, IL-36 gamma, IL-36 RA, IL-37, IL-38
Characteristics:	 Running an array is like running dozens of ELISAs simultaneously. Quantibody arrays are stunningly simple to use, read, and analyze. Each panel can quantify up to 40 different biomarkers simultaneously, and individual panels can be multiplexed to quantify as many as 660 different biomarkers at one time. The entire process can be completed in just 4-6 hours. More cost-effective than traditional ELISA High specificity and system reproducibility Suitable for diverse sample types Low sample volume requirement: 50 µL or less Well-suited for high throughput assays

	 More cost-effective than traditional ELISA High specificity and system reproducibility Suitable for diverse sample types Low sample volume requirement: 50 µL or less Get results same day (6-hour processing time) Well-suited for high throughput assays Q Analyzer software provides one-step computation
Components:	Glass Chip with antibody arrays
	Sample Diluent
	Lyophilized protein standard mix
	Detection antibody cocktail
	Streptavidin-Fluorescent dye
	Wash buffer
Material not included:	Distilled or deionized water
	Small plastic boxes or containers
	Pipettors, pipette tips and other common lab consumables
	Orbital shaker or oscillating rocker
	Aluminum foil
	Gene microarray scanner or similar laser fluorescence scanner

Application Details

Application Notes:	Completely cover array area with sample or buffer during incubation. Avoid foaming during
	incubation steps. Perform all incubation and wash steps under gentle rocking or rotation. Cover
	the incubation chamber with adhesive film during incubation, particularly when incubation is
	more than 2 hours or <70 μL of sample or reagent is used. Several incubation steps such as
	step 6 (blocking), step 7 (sample incubation), step 10 (detection antibody incubation), or step
	13 (Cy3 equivalent dyestreptavidin incubation) may be done overnight at 4 °C. Please make
	sure to cover the incubation chamber tightly to prevent evaporation.
Comment:	The Quantibody arrays are quantitative multiplex ELISA arrays featuring fluorescent detection.
	The antibodies are spotted on glass slide solid supports and require a laser scanner for data
	collection. Cytokine standards are provided with the array for calculation of target protein
	concentrations.
	All Quantibody arrays feature the sandwich immunoassay principle, utilizing an immobilized
	capture antibody along with a corresponding biotinylated detection antibody.

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Application Details

Sample Volume:	100 µL				
Plate:	Glass Slide				
Protocol:	1. Each Quantibody array starts with a single glass microscope slide, which acts as a support for the array. Slides are segmented using a rubber gasket. Up to 8 samples may assayed using a single slide.				
	2. Antibodies against a variety of different antigens (up to 40 biomarkers per slide) are printed onto the glass slide. Replicates are included, saving you both time and precious sample volume.				
	3. The end-user adds either known concentration standards (included) or aqueous sample to each well on the slide. Antibodies on the slide capture antigen off from the sample or standard.				
	 The end-user adds a detection mix containing paired antibodies (compatible with the primaries pre-coated on the slide) conjugated to a fluorescent dye for detection. 				
	5. Fluorescent signal from each spot is read using a laser slide scanner. The intensity from each spot is compared to the standard curve, and a quantitative expression profile for relevant biomarkers is established.				
Restrictions:	For Research Use only				
Handling					
Handling Advice:	Do not touch the surface of the slides, as the microarray slides are very sensitive. Hold the				
	slides by the edges only. Handle all buffers and slides with powder free gloves. Handle glass				
	slide/s in clean environment. The Quantibody slides do not have bar codes. To help distinguish				
	one slide from another, transcribe the slide serial number from the slide bag to the back of the				
	slide with an ultra-fine point permanent marker. Please Note:Red permanent marker can				
	significantly interfere with fluorescent signal detection. We recommend marking your slides				
	with a green, blue or black ultra-fine point permanent marker. Please write the number on the				
	very bottom edge of the slide. Do not write on the arrayed well areas.				
Storage:	-20 °C				
Storage Comment:	For best results, store the entire kit frozen at -20°C upon arrival. Stored frozen, the kit will be				
5					
5	stable for at least 6 months which is the duration of the product warranty period. Once thawed				
5	stable for at least 6 months which is the duration of the product warranty period. Once thawed store array slide(s), standard mix, detection antibody cocktail, and Cy3-Conjugated Streptavidir				
5					

Product cited in:

De Pascalis, Mittereder, Kennett, Elkins: "Activities of Murine Peripheral Blood Lymphocytes

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Images

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	1	2	3	4	1	2	3	4
A	POS1				POS2			
В	IL-1 alpha				IL-1 beta			
С	IL-1 RA			IL-18				
D	IL-36 RA				IL-36 alpha			
E	IL-37			IL-36 beta				
F	IL-36 gamma				IL-38			
G	IL-33 (IL-1 F11)				NEG			

Image 1.