

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit (IL1 alpha, IL1 beta, IL6, IL8, GM-CSF, IFN-gamma, MCP1 and TNF-alpha)

Package: 96 wells
Store at: 4°C and -20°C

Summary

Product Description	ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit (IL1 alpha, IL1 beta, IL6, IL8, GM-CSF, IFN-gamma, MCP1 and TNF-alpha) is an Enzyme Immunoassay kit for the quantification of IL1 alpha, IL1 beta, IL6, IL8, GM-CSF, IFN-gamma, MCP1 and TNF-alpha in serum, plasma and cell culture supernatant . See all Multiplex ELISA kits
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	Inflammatory Cytokine Multiplex
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	IL1 alpha: 7.8 pg/ml IL1 beta: 3.9 pg/ml IL6: 7.8 pg/ml IL8: 11.7 pg/ml GM-CSF: 3.9 pg/ml IFN-gamma: 3.9 pg/ml MCP1: 7.8 pg/ml TNF alpha: 7.8 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Standard Range	IL1 alpha: 15.6 - 1000 pg/ml IL1 beta: 7.8 - 500 pg/ml IL6: 15.6 - 1000 pg/ml IL8: 23.4 - 1500 pg/ml GM-CSF: 7.8 - 500 pg/ml IFN-gamma: 7.8 - 500 pg/ml MCP1: 15.6 - 1000 pg/ml TNF alpha: 15.6 - 1000 pg/ml
Sample Volume	50 µl

Application Instructions

Assay Time 4.5 hour

Properties

Form	96 well
Storage instruction	Store components at 4°C or -20°C. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background

Inflammation is body's protective response to foreign subjects, pathogens, tissue damage, autoimmune and other harmful stimuli. It is initiated by production of a cascade of chemicals and cytokines in affected area. These pro-inflammatory mediators result in vasodilation, increased vascular permeability, influx of blood, plasma leakage, neutrophil and macrophage infiltration and activation. Inflammatory reaction plays an important role in limiting foreign substance and engulfing pathogens and tissue debris.

Acute inflammation is the initial phase to eliminate invaded foreign substances, pathogens and other harmful stimuli. If the stimuli persist, chronic inflammation will evolve. Progressive tissue destruction and shifting cell types occurs simultaneously during chronic inflammation. The cytokine profiles that regulate the procedure are different depending on the causes, location and progress of the inflammation.

Highlight

Related products:

[Inflammation antibodies;](#) [Inflammation Duos / Panels;](#)

Related news:

[HMGB1 in inflammation](#)

[Inflammatory Cytokines](#)

[Exploring Antiviral Immune Response](#)

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

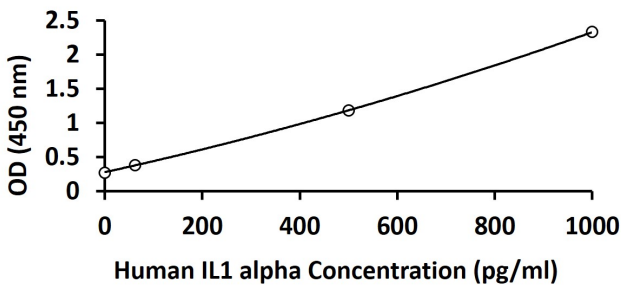
Research Area

Immune System kit; Metabolism kit

Images

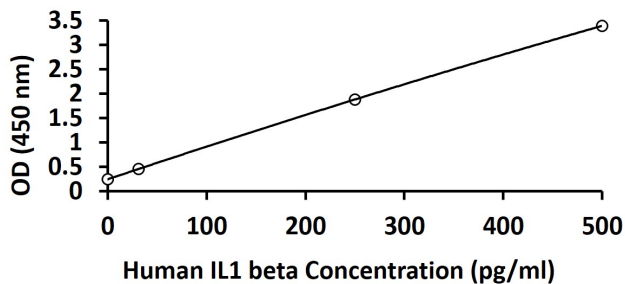
	1	2	3	4	5	6	7	8	9	10	11	12
A	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α	IL-1α
B	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β	IL-1β
C	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6	IL-6
D	IL-8	IL-8	IL-8	IL-8	IL-8	IL-8	IL-8	IL-8	IL-8	IL-8	IL-8	IL-8
E	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF	GM-CSF
F	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ	IFN-γ
G	MCP1	MCP1	MCP1	MCP1	MCP1	MCP1	MCP1	MCP1	MCP1	MCP1	MCP1	MCP1
H	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α	TNF-α

Antibodies Coating Pattern In Microtiter Plate of ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit (IL1 alpha, IL1 beta, IL6, IL8, GM-CSF, IFN-gamma, MCP1 and TNF-alpha)



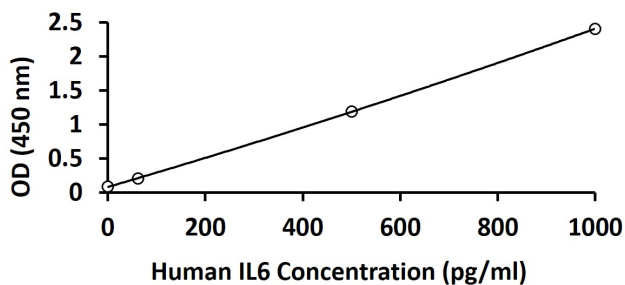
ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human IL1 alpha run with optical density reading at 450 nm.



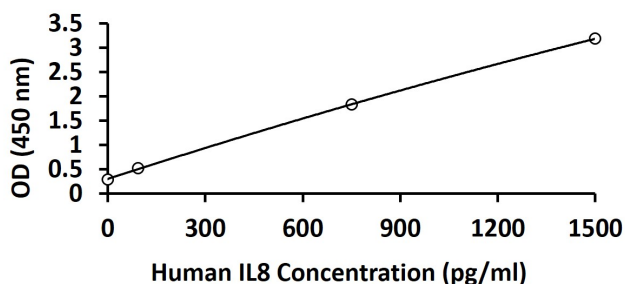
ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human IL1 beta run with optical density reading at 450 nm.



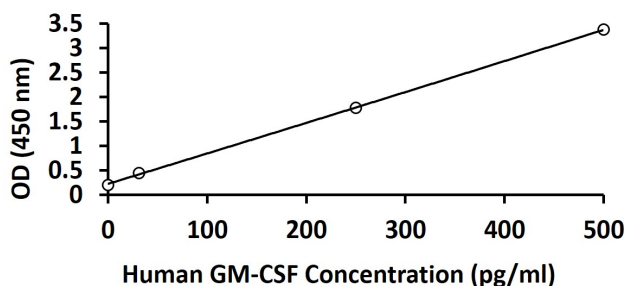
ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human IL6 run with optical density reading at 450 nm.



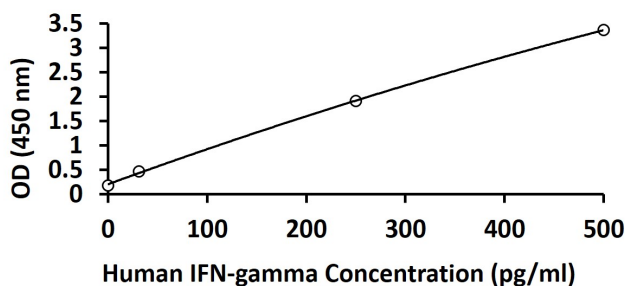
ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human IL8 run with optical density reading at 450 nm.



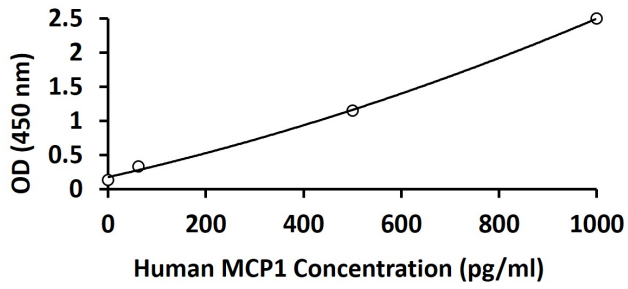
ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human GM-CSF run with optical density reading at 450 nm.



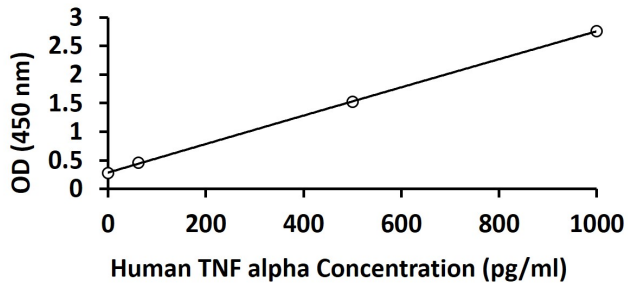
ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human IFN-gamma run with optical density reading at 450 nm.



ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human MCP1 run with optical density reading at 450 nm.



ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit standard curve image

ARG83509 arigoPLEX® Human Inflammatory Cytokine Multiplex ELISA Kit results of a typical standard for Human TNF alpha run with optical density reading at 450 nm.