

ARG80828
Human IL10 ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG80828 Human IL10 ELISA Kit is an enzyme immunoassay kit for in vitro quantitative measurement of human interleukin-10 (IL-10) in serum.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	IL10
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	1.6 pg/ml
Sample Type	Serum.
Standard Range	14 - 2,101 pg/ml
Sample Volume	100 µl
Alternate Names	IL10A; GVHDS; TGIF; IL-10; Cytokine synthesis inhibitory factor; CSIF; Interleukin-10

Application Instructions

Assay Time	2 h, 2 h, 30 min (RT/shaking)
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. 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

Database links	GeneID: 3586 Human Swiss-port # P22301 Human
Gene Symbol	IL10
Gene Full Name	interleukin 10
Background	Biological activities Human interleukin-10 (IL-10) is a 19 kDA lymphokine produced by T helper lymphocytes, by monocytes, macrophages and B-lymphocytes. IL-10 was first characterized as a cytokine synthesis inhibitory factor (CSIF) able to inhibit cytokine synthesis by TH1 clones activated in the presence of antigen presenting cells. However, in the absence of monocytes, IL-10 directly inhibits the growth of T-cells triggered by

immobilized anti-CD3 MoAb. This proliferation inhibition was found to be a result of specific inhibition of IL-2 production by the responding T-cells. In vitro, IL-10 is a very powerful inhibitor of monokines (including TNF-alpha, IL-1, IL-6 and IL-8) produced by LPS-activated monocytes and macrophages. The addition of IL-10 to B lymphocytes results in limited cell proliferation but most importantly in very high immunoglobulin production, a result of the transformation of B-cells into plasma cells. Finally, natural killer (NK) cells appear to be another target for the anti-inflammatory properties of IL-10. Indeed, recent data have shown that IL-10 can inhibit antigen induced IFN-gamma production by NK-cells by inhibiting not only production but also the stimulatory effects of IL-12 and TNF on IFN-gamma production.

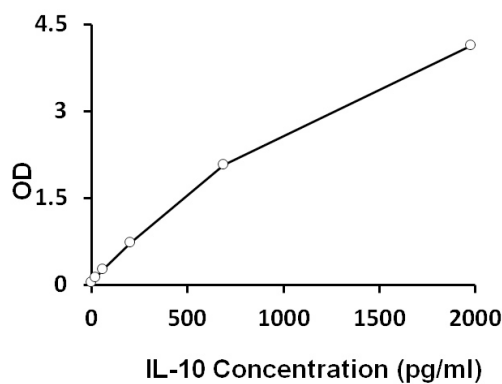
Clinical application

So far, circulating levels of IL-10 have been found in serum of patients suffering of Non-Hodgkin's lymphoma, multiple myeloma, cerebral malaria or septic shock.

Research Area

Cancer kit; Immune System kit

Images



ARG80828 Human IL10 ELISA Kit example of standard curve image

ARG80828 Human IL10 ELISA Kit results of a typical standard run with optical density reading at 450 nm.