

ARG80151 Human IL21 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG80151-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG80151-002	Standard (Lyophilized)	3 X 2.1 ng/vial	4°C
ARG80151-003	Standard diluent buffer	20 ml	4°C
ARG80151-004	Antibody conjugate concentrate	400 µl	4°C
ARG80151-005	Antibody diluent buffer	16 ml	4°C
ARG80151-006	HRP-Streptavidin concentrate	400 µl	4°C (Protect from light)
ARG80151-007	HRP-Streptavidin diluent buffer	16 ml	4°C
ARG80151-008	20X Wash buffer	50 ml	4°C
ARG80151-009	TMB substrate	12ml	4°C (Protect from light)
ARG80151-010	STOP solution	12ml	4°C
ARG80151-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG80151 Human IL21 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL21 in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	No significant cross-reactivity or interference with Human IL-2,4,7,9,15 mouse IL-2,4,15,21
Target Name	IL21
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm
Sensitivity	23.9 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	46.8 - 3000 pg/ml
Sample Volume	100 µl

Precision	CV: less than 10%
Alternate Names	Za11; IL-21; CVID11; Interleukin-21

Application Instructions

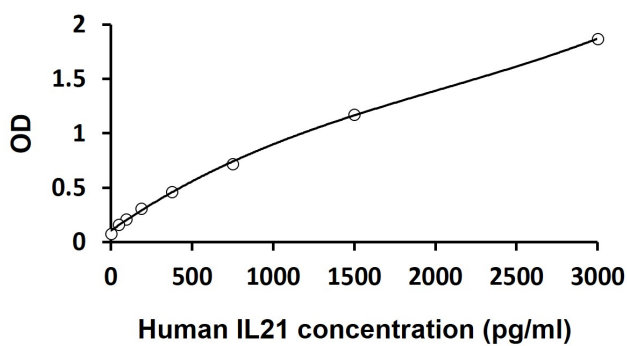
Assay Time	4 hours
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Properties

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: 59067 Human Swiss-port # Q9HBE4 Human
Gene Symbol	IL21
Gene Full Name	interleukin 21
Background	<p>Interleukin-21 (IL-21) is a secreted, type-I cytokine with immunoregulatory activity. Human IL-21 shares the common ancestor of lymphoid and myeloid cells of the immune system (T cells, B cells, natural killer (NK) cells and dendritic cells). IL21 is therefore able to regulate innate and acquired immune responses. The biological effects of IL-21 include induction of differentiation, maturation, and proliferation of T-cells-stimulated B-cells into plasma cells and memory B-cells, stimulation (in conjunction) with IL-4 of IgG production, and induction of apoptotic effects in naive B-cells and stimulated B-cells in the absence of T-cell signaling. Human IL-21 has also been shown to promote the anti-tumor activity of CD8+ T-cells and NK cells. During T-cell mediated immune response, IL21 may inhibit dendritic cells' (DC) activation and maturation. In synergy with IL15 and IL18, IL21 stimulates interferon gamma production in T-cells and NK cells; with the IL15, it may play a role in proliferation and maturation of natural killer (NK) cells.</p>
Highlight	<p>Related products: IL21 antibodies; IL21 ELISA Kits; IL21 recombinant proteins; New ELISA data calculation tool: Simplify the ELISA analysis by GainData</p>
Research Area	Immune System kit



ARG80151 Human IL21 ELISA Kit standard curve image

ARG80151 Human IL21 ELISA Kit results of a typical standard run with optical density reading at 450 nm.