

ARG82947 Human IL17A / IL17F Heterodimer ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG82947 Human IL17A / IL17F Heterodimer ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL17A / IL17F Heterodimer in serum, plasma and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	IL17A / IL17F Heterodimer
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	23.44 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	46.88 - 3000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	IL17A: IL-17A; Interleukin-17A; IL-17; CTLA8; IL17; CTLA-8; Cytotoxic T-lymphocyte-associated antigen 8 IL17F: Interleukin-17F; IL-17F; CANDF6; ML-1; ML1; Cytokine ML-1

Application Instructions

Assay Time	~ 3.5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 4°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

Gene Symbol	IL17A; IL17F
Gene Full Name	interleukin 17A / interleukin 17F Heterodimer
Background	IL17A: The protein encoded by this gene is a proinflammatory cytokine produced by activated T cells. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. [provided by RefSeq, Jul 2008]

IL17F: The protein encoded by this gene is a cytokine that shares sequence similarity with IL17. This cytokine is expressed by activated T cells, and has been shown to stimulate the production of several other cytokines, including IL6, IL8, and CSF2/GM-CSF. This cytokine is also found to inhibit the angiogenesis of endothelial cells and induce endothelial cells to produce IL2, TGFB1/TGFB, and monocyte chemoattractant protein-1. [provided by RefSeq, Jul 2008]

Function

IL17A: Ligand for IL17RA and IL17RC (PubMed:17911633). The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC (PubMed:18684971). Involved in inducing stromal cells to produce proinflammatory and hematopoietic cytokines (PubMed:8676080). [UniProt]

IL17F: Ligand for IL17RA and IL17RC (PubMed:17911633). The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC (PubMed:18684971). Involved in stimulating the production of other cytokines such as IL6, IL8 and CSF2, and in regulation of cartilage matrix turnover (PubMed:11591732, PubMed:11591768, PubMed:11574464). Also involved in stimulating the proliferation of peripheral blood mononuclear cells and T-cells and in inhibition of angiogenesis (PubMed:11591732). Plays a role in the induction of neutrophilia in the lungs and in the exacerbation of antigen-induced pulmonary allergic inflammation (By similarity). [UniProt]

Highlight

Related products:

[IL17 antibodies](#); [IL17 ELISA Kits](#); [IL17 recombinant proteins](#);

New ELISA data calculation tool:

[Simplify the ELISA analysis by GainData](#)

PTM

IL17A: Found both in glycosylated and nonglycosylated forms. [UniProt]

Cellular Localization

IL17A and IL17F: Secreted. [UniProt]