

ARG81315 Human CD124 / IL4 Receptor ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG81315 Human CD124 / IL4 Receptor ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD124 / IL4 Receptor in serum, plasma and cell culture supernatant.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Recognizes both natural and recombinant Human soluble IL4 Receptor. No cross reactivity with other Human soluble receptors.
Target Name	CD124 / IL4 Receptor
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	11.5 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	31.25 - 1000 pg/ml
Sample Volume	100 µl
Alternate Names	CD124; IL-4RA; IL-4R subunit alpha; Soluble IL-4R-alpha; IL-4 receptor subunit alpha; IL4RA; CD antigen CD124; sIL4Ralpha/prot; Soluble IL-4 receptor subunit alpha; IL-4R-alpha; IL-4-binding protein; IL4-BP; Interleukin-4 receptor subunit alpha

Application Instructions

Assay Time	~ 2 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

Gene Symbol	IL4R
Gene Full Name	interleukin 4 receptor
Background	This gene encodes the alpha chain of the interleukin-4 receptor, a type I transmembrane protein that can bind interleukin 4 and interleukin 13 to regulate IgE production. The encoded protein also can bind interleukin 4 to promote differentiation of Th2 cells. A soluble form of the encoded protein can be produced by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. Allelic variations in this gene have been

associated with atopy, a condition that can manifest itself as allergic rhinitis, sinusitis, asthma, or eczema. Polymorphisms in this gene are also associated with resistance to human immunodeficiency virus type-1 infection. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Apr 2012]

Function

Receptor for both interleukin 4 and interleukin 13. Couples to the JAK1/2/3-STAT6 pathway. The IL4 response is involved in promoting Th2 differentiation. The IL4/IL13 responses are involved in regulating IgE production and, chemokine and mucus production at sites of allergic inflammation. In certain cell types, can signal through activation of insulin receptor substrates, IRS1/IRS2.

Soluble IL4R (sIL4R) inhibits IL4-mediated cell proliferation and IL5 up-regulation by T-cells. [UniProt]

Highlight

Related products:

[CD124 ELISA Kits](#):

New ELISA data calculation tool:

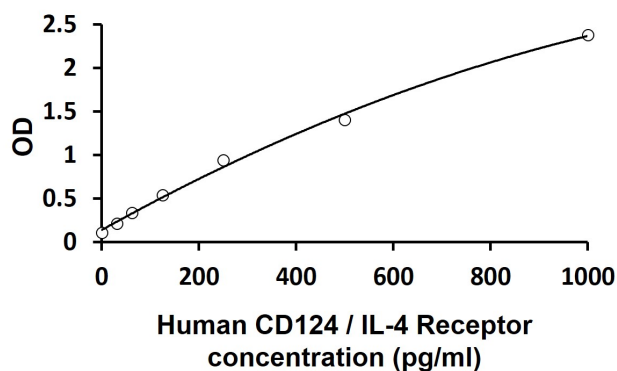
[Simplify the ELISA analysis by GainData](#)

PTM

On IL4 binding, phosphorylated on C-terminal tyrosine residues. Phosphorylation on any one of tyrosine residues, Tyr-575, Tyr-603 or Tyr-631, is required for STAT6-induced gene induction.

The soluble form (sIL4R/IL4BP) can also be produced by proteolytic cleavage at the cell surface (shedding) by a metalloproteinase. [UniProt]

Images



ARG81315 Human CD124 / IL4 Receptor ELISA Kit standard curve image

ARG81315 Human CD124 / IL4 Receptor ELISA Kit results of a typical standard run with optical density reading at 450 nm.
