

ARG82570 Mouse CD124 / IL4 Receptor ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82570-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82570-002	Standard	2 X 10 ng/vial	4°C
ARG82570-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82570-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82570-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82570-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82570-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82570-008	25X Wash buffer	20 ml	4°C
ARG82570-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82570-010	STOP solution	10 ml (Ready to use)	4°C
ARG82570-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82570 Mouse CD124 / IL4 Receptor ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CD124 / IL4 Receptor in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	CD124 / IL4 Receptor
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.3% Inter-Assay CV: 6.8%

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
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Application Instructions

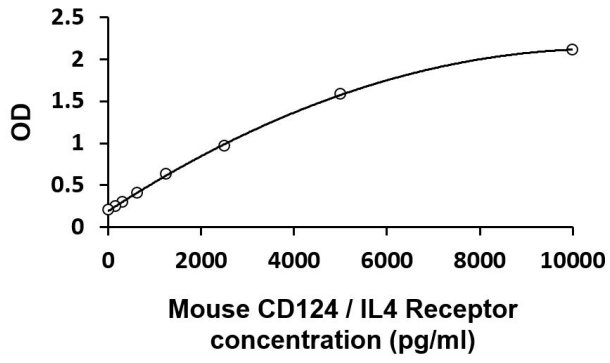
Assay Time	~ 5 hours
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Properties

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]
Cellular Localization	Cell membrane; Single-pass type I membrane protein. Isoform 2: Secreted. [UniProt]



ARG82570 Mouse CD124 / IL4 Receptor ELISA Kit standard curve image

ARG82570 Mouse CD124 / IL4 Receptor ELISA Kit results of a typical standard run with optical density reading at 450 nm.