

ARG82614 Mouse IL15 / IL15R Complex ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG82614 Mouse IL15 / IL15R Complex ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse IL15 / IL15R Complex in serum, plasma and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	This kit could assay both natural and recombinant Mouse IL15 / IL15R Complex. No significant cross-reactivity or interference was observed in the following samples: Human: IFN gamma, IL1 beta, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL17A, IL18, IL21, IL22, IL23, MCP1, TGF beta 1, TNF alpha and VEGF. Mouse: GM-CSF, IFN gamma, IL1 beta, IL2, IL4, IL6, IL10, IL17A and TNF alpha. Rat: IFN gamma, IL1 beta, IL4, IL6, IL10 and TNF alpha.
Target Name	IL15 / IL15R Complex
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	7.8 pg/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	20 - 100 µl
Precision	Intra-Assay CV: 4.6% Inter-Assay CV: 3.5%
Alternate Names	IL-15; Interleukin-15

Application Instructions

Assay Time	~ 2.5 hours
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Properties

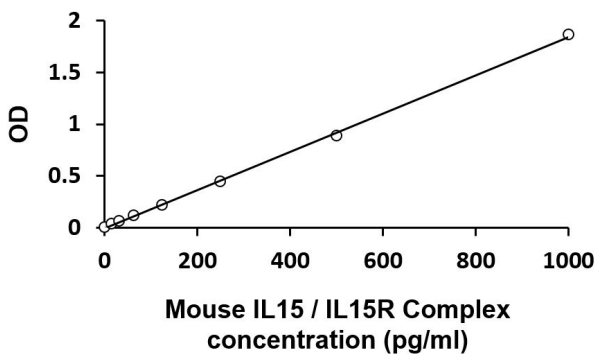
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	IL15
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Gene Full Name	interleukin 15
Background	The protein encoded by this gene is a cytokine that regulates T and natural killer cell activation and proliferation. This cytokine and interleukine 2 share many biological activities. They are found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between this cytokine and IL2. This cytokine induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. Studies of the mouse counterpart suggested that this cytokine may increase the expression of apoptosis inhibitor BCL2L1/BCL-x(L), possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. Alternatively spliced transcript variants of this gene have been reported. [provided by RefSeq, Feb 2011]
Function	Cytokine that stimulates the proliferation of T-lymphocytes. Stimulation by IL-15 requires interaction of IL-15 with components of IL-2R, including IL-2R beta and probably IL-2R gamma but not IL-2R alpha. [UniProt]
Highlight	Related products: IL15 antibodies ; IL15 ELISA Kits ; IL15 recombinant proteins ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Cellular Localization	Isoform IL15-S48AA: Secreted. Isoform IL15-S21AA: Cytoplasm. Nucleus. Note=IL15-S21AA is not secreted, but rather is stored intracellularly, appearing in the nucleus and cytoplasmic components. [UniProt]

Images



ARG82614 Mouse IL15 / IL15R Complex ELISA Kit standard curve image

ARG82614 Mouse IL15 / IL15R Complex ELISA Kit results of a typical standard run with optical density reading at 450 nm.