

ARG81624 Human IL15RA ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81624-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81624-002	Standard	2 X 10 ng/vial	4°C
ARG81624-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81624-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81624-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81624-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81624-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81624-008	25X Wash buffer	20 ml	4°C
ARG81624-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81624-010	STOP solution	10 ml (Ready to use)	4°C
ARG81624-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81624 Human IL15RA ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL15RA in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	IL15RA
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.2% Inter-Assay CV: 7.4%
Alternate Names	sIL-15 receptor subunit alpha; sIL-15RA; Interleukin-15 receptor subunit alpha; IL-15R-alpha; IL-15RA; IL-15 receptor subunit alpha; CD antigen CD215; CD215; sIL-15R-alpha

Application Instructions

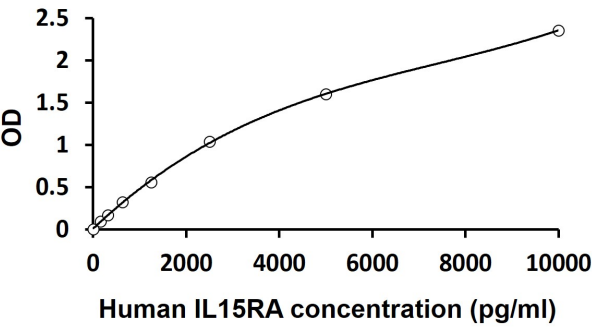
Assay Time	~ 5 hours
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Properties

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	IL15RA
Gene Full Name	interleukin 15 receptor, alpha
Background	This gene encodes a cytokine receptor that specifically binds interleukin 15 (IL15) with high affinity. The receptors of IL15 and IL2 share two subunits, IL2R beta and IL2R gamma. This forms the basis of many overlapping biological activities of IL15 and IL2. The protein encoded by this gene is structurally related to IL2R alpha, an additional IL2-specific alpha subunit necessary for high affinity IL2 binding. Unlike IL2RA, IL15RA is capable of binding IL15 with high affinity independent of other subunits, which suggests distinct roles between IL15 and IL2. This receptor is reported to enhance cell proliferation and expression of apoptosis inhibitor BCL2L1/BCL2-XL and BCL2. Multiple alternatively spliced transcript variants of this gene have been reported.[provided by RefSeq, Apr 2010]
Function	High-affinity receptor for interleukin-15. Can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RG-expressing cells. Expression of different isoforms may alter or interfere with signal transduction. Isoform 5, isoform 6, isoform 7 and isoform 8 do not bind IL15. Signal transduction involves SYK. [UniProt]
Highlight	Related products: IL15RA antibodies ; IL15RA ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	A soluble form (sIL-15RA) arises from proteolytic shedding of the membrane-anchored receptor. The cleavage involves ADAM17/TACE (By similarity). It also binds IL-15 and thus interferes with IL-15 binding to the membrane receptor. Phosphorylated by activated SYK. N-glycosylated and O-glycosylated. [UniProt]



ARG81624 Human IL15RA ELISA Kit standard curve image

ARG81624 Human IL15RA ELISA Kit results of a typical standard run with optical density reading at 450 nm.