

ARG81412 Human CD121a / IL1 Receptor1 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81412-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81412-002	Standard	2 X 10 ng/vial	4°C
ARG81412-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81412-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81412-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81412-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81412-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81412-008	25X Wash buffer	20 ml	4°C
ARG81412-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81412-010	STOP solution	10 ml (Ready to use)	4°C
ARG81412-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81412 Human CD121a / IL1 Receptor1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL1 Receptor I in serum and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD121a / IL1 Receptor1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	62.5 pg/ml
Sample Type	Serum and cell culture supernatants.
Standard Range	125 - 8000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.0% Inter-Assay CV: 6.2%
Alternate Names	Interleukin-1 receptor alpha; sIL-1R1; p80; CD121A; mL-1RI; IL1R; P80; Interleukin-1 receptor type I; IL1RA; D2S1473; Interleukin-1 receptor type 1; IL-1R-alpha; IL-1RT-1; CD121 antigen-like family member A; IL-1R-1; sIL-1RI; IL-1RT1; mL-1R1; CD antigen CD121a

Application Instructions

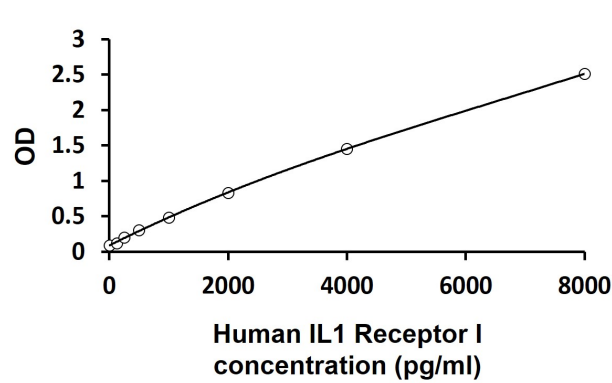
Assay Time	~ 5 hours
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Properties

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	IL1R1
Gene Full Name	interleukin 1 receptor, type I
Background	This gene encodes a cytokine receptor that belongs to the interleukin-1 receptor family. The encoded protein is a receptor for interleukin-1 alpha, interleukin-1 beta, and interleukin-1 receptor antagonist. It is an important mediator involved in many cytokine-induced immune and inflammatory responses. This gene is located in a cluster of related cytokine receptor genes on chromosome 2q12. [provided by RefSeq, Dec 2013]
Function	Receptor for IL1A, IL1B and IL1RN. After binding to interleukin-1 associates with the coreceptor IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex. [UniProt]
Highlight	Related products: IL1 Receptor antibodies ; IL1 Receptor ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	A soluble form (sIL1R1) is probably produced by proteolytic cleavage at the cell surface (shedding). Rapidly phosphorylated on Tyr-496 in response to IL-1, which creates a SH2 binding site for the PI 3-kinase regulatory subunit PIK3R1. [UniProt]



ARG81412 Human IL1 Receptor I ELISA Kit standard curve image

ARG81412 Human IL1 Receptor I ELISA Kit results of a typical standard run with optical density reading at 450 nm.