

ARG81413 Human IL1 Receptor II ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81413-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81413-002	Standard	2 X 10 ng/vial	4°C
ARG81413-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81413-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81413-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81413-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81413-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81413-008	25X Wash buffer	20 ml	4°C
ARG81413-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81413-010	STOP solution	10 ml (Ready to use)	4°C
ARG81413-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81413 Human IL1 Receptor II ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human IL1 Receptor II 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	IL1 Receptor II
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.2% Inter-Assay CV: 7.0%
Alternate Names	IL-1 type II receptor; mIL-1RII; CDw121b; Interleukin-1 receptor type II; CD antigen CD121b; CD121b; Interleukin-1 receptor type 2; IL1R2c; sIL-1R2; IL1RB; Interleukin-1 receptor beta; sIL-1RII; IL-1R-2; IL-1RT2; IL-1RT-2; CD121 antigen-like family member B; mIL-1R2; IL-1R-beta

Application Instructions

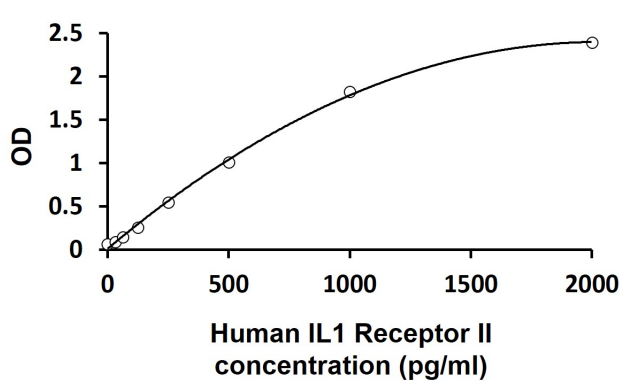
Assay Time	~ 5 hours
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Properties

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	IL1R2
Gene Full Name	interleukin 1 receptor, type II
Background	The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family. This protein binds interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I (IL1R1/IL1RA), and acts as a decoy receptor that inhibits the activity of its ligands. Interleukin 4 (IL4) is reported to antagonize the activity of interleukin 1 by inducing the expression and release of this cytokine. This gene and three other genes form a cytokine receptor gene cluster on chromosome 2q12. Alternative splicing results in multiple transcript variants and protein isoforms. Alternative splicing produces both membrane-bound and soluble proteins. A soluble protein is also produced by proteolytic cleavage. [provided by RefSeq, May 2012]
Function	Non-signaling receptor for IL1A, IL1B and IL1RN. Reduces IL1B activities. Serves as a decoy receptor by competitive binding to IL1B and preventing its binding to IL1R1. Also modulates cellular response through non-signaling association with IL1RAP after binding to IL1B. IL1R2 (membrane and secreted forms) preferentially binds IL1B and poorly IL1A and IL1RN. The secreted IL1R2 recruits secreted IL1RAP with high affinity; this complex formation may be the dominant mechanism for neutralization of IL1B by secreted/soluble receptors. [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 (sIL1R2) can also be produced by proteolytic cleavage at the cell surface (shedding) involving a metalloproteinase; however, several sIL1R2 forms ranging from 45 and 60 kDa are reported. [UniProt]



ARG81413 Human IL1 Receptor II ELISA Kit standard curve image

ARG81413 Human IL1 Receptor II ELISA Kit results of a typical standard run with optical density reading at 450 nm.